

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
B	1		CIRCUIT BREAKER FOR Y-D COMBINATION, RATED CURRENT 100A	3VL27 10-2DK33	-Q1		SIEMENS		
	2	100001028	CONTACTOR, 55KW/400V/AC-3 AC(40...60HZ)/DC OPERATION UC 220...240V AUXIL. CONTACTS 2NO+2NC	3RT1054-1AP36	-KM1, KM3		SIEMENS		Line + Delta Contactor
	1	100001007	CONTACTOR, AC-3 30 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S3, SCREW CONNECTION	3RT1044-1AP00	-KM2		SIEMENS		Y Contactor
	1	101087600	OVERLOAD RELAY 50...200 A FOR MOTOR PROTECTION SIZE S6, CLASS 10 MOUNT. ONTO CONT./STAND-ALONE	3RB2056-1FW2	-F4		SIEMENS		
A	1	100922957	ZCT, Toroid Type, Dia: 70mm	BZCT070	-T4		BROYCE		
	1	101457037	Earth Leakage Relay, 230 VAC	ELRM44V-30: EARTH LEAKAGE RELAY 230VAC	-F7		BROYCE		
C	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC	3TH4022-0XP0	-K1, -K2		SIEMENS		
A	1	100000782	AUXILIARY SWITCH BLOCK, 2 NO, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION, SIZE S0...S12, FOR CONTACTORS FOR SWITCHING	3RH1921-1EA20	for KM1		SIEMENS		
A	1		AUXILIARY SWITCH BLOCK, 2 NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION, SIZE S0...S12, FOR CONTACTORS FOR SWITCHING	3RH1921-1EA02	for KM1				
	1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM	5SY4106-7	-F11		SIEMENS		
	1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON	XD16-11ZS	-S10	16 Dia	XIDER		
	1	100022565	ACCESSORY FOR VL160X, VL160, VL250, VL400, AUXILIARY/ALARM SWITCH KIT 2HS(1NO+1NC)+1AS(1NO)	3VL9400-2AD00	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		
B	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		Alternate 3VL9300-3HF04 (01 No. available in stock)
	1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia	AD16-16D/S:LED - RED 230VAC/DC-Xider	-H1	16 Dia	XIDER		for ON Status
	1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia	AD16-16D/S:LED - GREEN 230VAC/DC-Xider	-H2	16 Dia	XIDER		for OFF Status
C	As shown	-02-16	MB	Date	13-11-15	DESCON ENGINEERING LIMITED			SB No.
B	As shown	-01-16	MB	Worked	MB	SIEMENS			3004565200
D	ASBUILT	-01-17	RA	Checked	UBA	OGDCL KPD-TAY PROJECT			P.O. No.
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(k)	Qty: 02	SB-E	800003211633
						55 kW Motor Feeder Starting Method: Y-D Type: M3			Sheet 1
						Component List			2 shs
						SB-E No.			
						A6585			(3)G76003-A6585-L171-D

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Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia	AD16-16D/S:LED - YELLOW 230VAC/DC-Xider	-H3	16 Dia	XIDER		for TRIP Status
B	1	101710036	AUX. SWITCH BLOCK, 1 NO+1 NC, DIN EN50012, LATERALLY, 10 MM, SCREW CONNECTION, SIZE S0...S12, FOR MOTOR CONTACTORS,	3RH1921-1DA11	for -KM2		SIEMENS		Also available against code 100611379
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,	3SB2202-0AE01	-S20	16 Dia	SIEMENS		For Lamp Test
C	1		AUX CONTACTOR, 230 VAC, 50 Hz, 4 NO / 3 NO+1 NC	3TH4040-0XP0 / 3TH4031-0XP0	-K10		SIEMENS		
	1	100000873	TIME RELAY, STAR-DELTA SINGLE TIME RANGE 20 S AC 24 V DC 200...240 V 0.7...1.25 US	3RP1574-1NP30	-KT		SIEMENS		
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12	3RU1900-1C	-S15		SIEMENS		
A	1	100076220	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 10A, D=70MM 10KA, 1-POLE, C, 10A, D=70MM 10KA, 1-POLE, C, 10A, D=70MM	5SY4110-7	-F15		SIEMENS		
D	1	100609176	* L.T.Current Transformer 1.5VA, Class 1 1.5VA, Class 1 1.5VA, Class 1	TAB1: LT CT 100/5A 1.5VA CL1.0	-T2		UNIDATA		
D	1		Ammeter, 0-100/200A, for CT ratio 100/5A,	EQ48	-P2	M005	ZIEGLER		
C	As shown	-02-16	MB	Date	13-11-15	DESCON ENGINEERING LIMITED			
B	As shown	-01-16	MB	Worked	MB	SIEMENS			
D	ASBUILT	-01-17	RA	Checked	UBA	OGDCL KPD-TAY PROJECT			
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(k)	Qty: 02	SB-E	Component List
						55 kW Motor Feeder		SB No.	
						Starting Method: Y-D		3004565200	
						Type: M3		P.O. No.	
						SB-E No.		800003211633	
						A6585		(3)G76003-A6585-L171-D	
								Sheet 2	
								2 shs	

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data			D Identifying Symbol	Concerns only the manufacturer			
								E	F	G	H
								Cutting Nr.	Make	Origin	Remarks
A	1	100001249	CIRCUIT-BREAKER N-RELEASE 819 A, SIZE S3 STARTER PROTECTION, 50 KA SCREW CONNECTION	3RV1341-4JC10			-Q1		SIEMENS		
	1	100001007	CONTACTOR, AC-3 30 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S3, SCREW CONNECTION	3RT1044-1AP00			-KM		SIEMENS		
	1	100001143	OVERLOAD RELAY, 45...63 A, 1NO+1NC, SIZE S3, CLASS 10, FOR CONTACTOR MOUNTING FOR CONTACTOR MOUNTING	3RU1146-4JB0			-F4		SIEMENS		
	1	100922957	ZCT, Toroid Type, Dia: 70mm	BZCT070			-T4		BROYCE		
	1	101457037	Earth Leakage Relay, 230 VAC	ELRM44V-30: EARTH LEAKAGE RELAY 230VAC			-F7		BROYCE		
	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC	3TH4022-0XP0			-K1, -K2		SIEMENS		
	2	100000781	AUX. SWITCH BLOCK, 1NO+1NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION, SIZE S0...S12, FOR CONTACTORS FOR SWITCHING MOTORS, 2-POLE	3RH1921-1EA11			for KM		SIEMENS		
	1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM	5SY4106-7			-F11		SIEMENS		
	1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON	XD16-11ZS			-S10	16 Dia	XIDER		
	1	100001285	SIGNALLING SWITCH FOR SIZE S0...S3 FOR SIZE S0...S3 FOR SIZE S0...S3	3RV1921-1M			for Q1		SIEMENS		
	1	100001271	AUXIL. SWITCH, TRANSVERSE 1NO + 1NC, F. CIRCUIT-BREAKER, SIZE S00,S0,S2,S3 SIZE S00,S0,S2,S3	3RV1901-1E			for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11					SIEMENS		
	1	102136513	DOOR-COUPLING ROTARY OPER.MECH. SIZE 1 HANDLE, BLACK MASKING PLATE, GREY WITH SHORT COUPLING DRIVER	8UC7161-1BD10			for Q1		SIEMENS		
	1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia	AD16-16D/S:LED - RED 230VAC/DC-Xider			-H1	16 Dia	XIDER		for ON Status
	1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia	AD16-16D/S:LED - GREEN 230VAC/DC-Xider			-H2	16 Dia	XIDER		for OFF Status
C	ASBUILT	-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SB No. 3004565200		P.O. No. 800003211633
B	As shown	-02-16	MB	Worked	MB	SIEMENS PAKISTAN			30 kW Motor Feeder Starting Method: DOL Type: M2		
A	As shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT			SB-E No. A6585		Sheet 1
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(j)	Qty: 06	SB-E	Component List		2 shs

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Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E	F	G	H
						Cutting Nr.	Make	Origin	Remarks
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia	AD16-16D/S:LED - YELLOW 230VAC/DC-Xider	-H3	16 Dia	XIDER		for TRIP Status
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,	3SB2202-0AE01	-S20	16 Dia	SIEMENS		For Lamp Test
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0	-K10		SIEMENS		
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12	3RU1900-1C	-S15		SIEMENS		
C	1	100609176	* L.T.Current Transformer 1.5VA, Class 1 1.5VA, Class 1 1.5VA, Class 1	TAB1: LT CT 100/5A 1.5VA CL1.0	-T2		UNIDATA		
C	1		Ammeter, 0-100/200A, for CT ratio 100/5A,	EQ48	-P2	M005	ZIEGLER		
C		ASBUILT	-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED		
B		As shown	-02-16	MB	Worked	MB	SIEMENS		
A		As shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT		
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(j)	Qty: 06	SB-E	Component List
						SB No.	3004565200		
						P.O. No.	800003211633		
						SB-E No.	A6585		
						(3)G76003-A6585-L170-C			Sheet 2
									2 shs

Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
										E	F	G	H
										Cutting Nr.	Make	Origin	Remarks
B	1	100001245	CIRCUIT-BREAKER N-RELEASE 416 A, SIZE S2 STARTER PROTECTION, 50 KA SCREW CONNECTION					3RV1331-4EC10	-Q1		SIEMENS		
	1	100000972	CONTACTOR, AC-3 15 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S2, SCREW CONNECTION					3RT1034-1AP00	-KM		SIEMENS		
	1	100001136	OVERLOAD RELAY, 22...32 A, 1NO+1NC, SIZE S2, CLASS 10, FOR CONTACTOR MOUNTING FOR CONTACTOR MOUNTING					3RU1136-4EB0	-F4		SIEMENS		
	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC					3TH4022-0XP0	-K1, -K2		SIEMENS		
	2	100000781	AUX. SWITCH BLOCK, 1NO+1NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION,SIZE S0...S12, FOR CONTACTORS FOR SWITCHING MOTORS, 2-POLE					3RH1921-1EA11	for KM		SIEMENS		
	1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM					5SY4106-7	-F11		SIEMENS		
	1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON					XD16-11ZS	-S10	16 Dia	XIDER		
	1	100001285	SIGNALLING SWITCH FOR SIZE S0...S3 FOR SIZE S0...S3 FOR SIZE S0...S3					3RV1921-1M	for Q1		SIEMENS		
	1	100001271	AUXIL. SWITCH, TRANSVERSE 1NO + 1NC, F. CIRCUIT-BREAKER, SIZE S00,S0,S2,S3 SIZE S00,S0,S2,S3					3RV1901-1E	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON					3SB3000-0EA11			SIEMENS		
	1	102136513	DOOR-COUPLING ROTARY OPER.MECH. SIZE 1 HANDLE, BLACK MASKING PLATE, GREY WITH SHORT COUPLING DRIVER					8UC7161-1BD10	for Q1		SIEMENS		
	1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia					AD16-16D/S:LED - RED 230VAC/DC-Xider	-H1	16 Dia	XIDER		for ON Status
	1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia					AD16-16D/S:LED - GREEN 230VAC/DC-Xider	-H2	16 Dia	XIDER		for OFF Status
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia					AD16-16D/S:LED - YELLOW 230VAC/DC-Xider	-H3	16 Dia	XIDER		for TRIP Status
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED		15 kW Motor Feeder Starting Method: DOL Type: M1	SB No.			P.O. No.
B	As shown		-02-16	MB	Worked	MB				3004565200			800003211633
A	As shown		-11-15	MB	Checked	UBA				SB-E No.			Sheet 1
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(i)	Qty: 02	SB-E	Component List	A6585	(3)G76003-A6585-L 169-C		2 shs

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Rev	Qty	Mat Code	B Description & Function					C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>		D Identifying Symbol		Concerns only the manufacturer				
												E Cutting Nr.	F Make	G Origin	H Remarks	
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,					3SB2202-0AE01		-S20	16 Dia	SIEMENS		For Lamp Test		
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO					3TH4040-0XP0		-K10						
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12					3RU1900-1C		-S15						
C	1	100619463	CI 1.5. for CT Ratio 50/5A					EQ48: AMMETER 0-50/100/5A		-P2		ZIEGLER				
C	1	100609186	* L.T. Current Instrument Transformer Ratio : 50/5A, Class 1, 1VA. Class 1, 1VA.					TAB1: LT CT 50/5A 1VA CL1.0		-T2		UNIDATA				
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	15 kW Motor Feeder Starting Method: DOL Type: M1		SB No. 3004565200		P.O. No. 800003211633	
B	As shown		-02-16	MB	Worked	MB							SB-E No. A6585			
A	As shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT						(3)G76003-A6585-L 169-C			
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(i)	Qty: 02	SB-E	Component List				Sheet 2 2 sh		

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Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data		D Identifying Symbol	Concerns only the manufacturer			
											E Cutting Nr.	F Make	G Origin	H Remarks
A 														

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Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer						
						E	F	G	H			
						Cutting Nr.	Make	Origin	Remarks			
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia	AD16-16D/S:LED - YELLOW 230VAC/DC-Xider	-H3	16 Dia	XIDER		for TRIP Status			
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,	3SB2202-0AE01	-S20	16 Dia	SIEMENS		For Lamp Test			
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0	-K10		SIEMENS					
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12	3RU1900-1C	-S15		SIEMENS					
C	1	100619463	CI 1.5. for CT Ratio 50/5A	EQ48: AMMETER 0-50/100/5A	-P2		ZIEGLER					
C	1	100609186	* L.T. Current Instrument Transformer Ratio : 50/5A, Class 1, 1VA. Class 1, 1VA.	TAB1: LT CT 50/5A 1VA CL1.0	-T2		UNIDATA					
C		ASBUILT	-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SB No.	P.O. No.	
B		As shown	-02-16	MB	Worked	MB	SIEMENS			3004565200	800003211633	
A		As shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT			SB-E No.	Sheet 2	
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(h)	Qty: 02	SB-E	Component List	A6585	(3)G76003-A6585-L168-C	2 shs

Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data		D Identifying Symbol		Concerns only the manufacturer					
												E Cutting Nr.	F Make	G Origin	H Remarks		
B	1	100001241	CIRCUIT-BREAKER N-RELEASE 208 A, SIZE S0, STARTER PROTECTION, 50 KA SCREW CONNECTION					3RV1321-4AC10		-Q1	16 Dia	SIEMENS					
	1	100000958	CONTACTOR, AC-3 11 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S0, SCREW CONNECTION					3RT1026-1AP00		-KM		SIEMENS					
	1	100001129	OVERLOAD RELAY,11...16 A, 1NO+1NC, SIZE S0, CLASS 10, FOR CONTACTOR MOUNTING FOR CONTACTOR MOUNTING					3RU1126-4AB0		-F4		SIEMENS					
	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC					3TH4022-0XP0		-K1, -K2		SIEMENS					
	2	100000781	AUX. SWITCH BLOCK, 1NO+1NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION,SIZE S0...S12, FOR CONTACTORS FOR SWITCHING MOTORS, 2-POLE					3RH1921-1EA11		for KM		SIEMENS					
	1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM					5SY4106-7		-F11		SIEMENS					
	1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON					XD16-11ZS		-S10							
	1	100001285	SIGNALLING SWITCH FOR SIZE S0...S3 FOR SIZE S0...S3 FOR SIZE S0...S3					3RV1921-1M		for Q1		SIEMENS					
	1	100001271	AUXIL. SWITCH, TRANSVERSE 1NO + 1NC, F. CIRCUIT-BREAKER, SIZE S00,S0,S2,S3 SIZE S00,S0,S2,S3					3RV1901-1E		for Q1		SIEMENS					
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON					3SB3000-0EA11				SIEMENS					
	1	102136513	DOOR-COUPLING ROTARY OPER.MECH. SIZE 1 HANDLE, BLACK MASKING PLATE, GREY WITH SHORT COUPLING DRIVER					8UC7161-1BD10		for Q1		SIEMENS					
	1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia					AD16-16D/S:LED - RED 230VAC/DC-Xider		-H1		16 Dia		XIDER	for ON Status		
	1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia					AD16-16D/S:LED - GREEN 230VAC/DC-Xider		-H2		16 Dia		XIDER	for OFF Status		
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia					AD16-16D/S:LED - YELLOW 230VAC/DC-Xider		-H3		16 Dia		XIDER	for TRIP Status		
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	7.5 kW Motor Feeder Starting Method: DOL Type: M1		SB No. 3004565200		P.O. No. 800003211633		
B	As shown		-01-16	MB	Worked	MB											
A	As shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT						SB-E No. A6585		(3)G76003-A6585-L167-C		
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(g)	Qty: 01	SB-E	Component List						Sheet 1 2 shs	

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Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer							
						E	F	G	H				
						Cutting Nr.	Make	Origin	Remarks				
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,	3SB2202-0AE01	-S20	16 Dia	SIEMENS		For Lamp Test				
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0	-K10		SIEMENS						
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12	3RU1900-1C	-S15		SIEMENS						
C	1		Direct Analog Ammeter, Scale 0-15/30A	EQ48 Direct Ammeter, Scale 0-15/30A	-P2		ZIEGLER						
C		ASBUILT	-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SB No. 3004565200		P.O. No. 800003211633	
B		As shown	-01-16	MB	Worked	MB	SIEMENS						
A		As shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT			SB-E No. A6585		Sheet 2	
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(g)	Qty: 01	SB-E	Component List	(3)G76003-A6585-L167-C		2 shs	

Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data		D Identifying Symbol	Concerns only the manufacturer			
											E Cutting Nr.	F Make	G Origin	H Remarks
A <														

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Rev	Qty	Mat Code	B Description & Function					C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>		D Identifying Symbol	Concerns only the manufacturer				
											E Cutting Nr.	F Make	G Origin	H Remarks	
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia					AD16-16D/S:LED - YELLOW 230VAC/DC-Xider		-H3	16 Dia	XIDER		for TRIP Status	
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,					3SB2202-0AE01		-S20	16 Dia	SIEMENS		For Lamp Test	
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO					3TH4040-0XP0		-K10		SIEMENS			
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12					3RU1900-1C		-S15		SIEMENS			
C	1	102206386	Direct Analog Ammeter, Scale 0-10/20A Scale 0-10/20A Scale 0-10/20A					EQ48 Direct Ammeter, Scale 0-10/20A		-P2		ZIEGLER			
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	5.5 kW Motor Feeder Starting Method: DOL Type: M2	SB No. 3004565200		P.O. No. 800003211633	
B	As shown		-01-16	MB	Worked	MB						SB-E No.			
A	As shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT					A6585		(3)G76003-A6585-L166-C	
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(f)	Qty: 02	SB-E	Component List				Sheet 2 2 shs	

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Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data		D Identifying Symbol		Concerns only the manufacturer				
												E Cutting Nr.	F Make	G Origin	H Remarks	
B	1	100001240	CIRCUIT-BREAKER N-RELEASE 163 A, SIZE S0, STARTER PROTECTION, 100 KA SCREW CONNECTION					3RV1321-1KC10		-Q1		16 Dia	SIEMENS			
	1	100000958	CONTACTOR, AC-3 11 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S0, SCREW CONNECTION					3RT1026-1AP00		-KM			SIEMENS			
	1	100001128	OVERLOAD RELAY, 9...12.5 A, 1NO+1NC, SIZE S0, CLASS 10, FOR CONTACTOR MOUNTING FOR CONTACTOR MOUNTING					3RU1126-1KB0		-F4			SIEMENS			
	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC					3TH4022-0XP0		-K1, -K2			SIEMENS			
	2	100000781	AUX. SWITCH BLOCK, 1NO+1NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION,SIZE S0...S12, FOR CONTACTORS FOR SWITCHING MOTORS, 2-POLE					3RH1921-1EA11		for KM			SIEMENS			
	1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM					5SY4106-7		-F11			SIEMENS			
	1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON					XD16-11ZS		-S10						
	1	100001285	SIGNALLING SWITCH FOR SIZE S0...S3 FOR SIZE S0...S3 FOR SIZE S0...S3					3RV1921-1M		for Q1			SIEMENS			
	1	100001271	AUXIL. SWITCH, TRANSVERSE 1NO + 1NC, F. CIRCUIT-BREAKER, SIZE S00,S0,S2,S3 SIZE S00,S0,S2,S3					3RV1901-1E		for Q1			SIEMENS			
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON					3SB3000-0EA11					SIEMENS			
	1	102136513	DOOR-COUPLING ROTARY OPER.MECH. SIZE 1 HANDLE, BLACK MASKING PLATE, GREY WITH SHORT COUPLING DRIVER					8UC7161-1BD10		for Q1			SIEMENS			
	1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia					AD16-16D/S:LED - RED 230VAC/DC-Xider		-H1			16 Dia		XIDER	for ON Status
1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia					AD16-16D/S:LED - GREEN 230VAC/DC-Xider		-H2		16 Dia	XIDER	for OFF Status			
1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia					AD16-16D/S:LED - YELLOW 230VAC/DC-Xider		-H3		16 Dia	XIDER	for TRIP Status			
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	5.5 kW Motor Feeder Starting Method: DOL Type: M1		SB No. 3004565200		P.O. No. 800003211633	
B	As shown		-01-16	MB	Worked	MB										
A	As shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT						SB-E No. A6585		Sheet 1 2 shs	
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(e)	Qty: 02	SB-E	Component List		(3)G76003-A6585-L165-C				

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Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer								
						E	F	G	H					
						Cutting Nr.	Make	Origin	Remarks					
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,	3SB2202-0AE01	-S20	16 Dia	SIEMENS		For Lamp Test					
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0	-K10		SIEMENS							
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12	3RU1900-1C	-S15		SIEMENS							
C	1	102206386	Direct Analog Ammeter, Scale 0-10/20A Scale 0-10/20A Scale 0-10/20A	EQ48 Direct Ammeter, Scale 0-10/20A	-P2		ZIEGLER							
C		ASBUILT	-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SB No. 3004565200		P.O. No. 800003211633		
B		As shown	-01-16	MB	Worked	MB	SIEMENS PAKISTAN	5.5 kW Motor Feeder Starting Method: DOL Type: M1						
A		As shown	-11-15	MB	Checked	UBA					SB-E No. A6585		(3)G76003-A6585-L165-C	
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(e)		Qty: 02	SB-E	Component List			Sheet 2 2 shs	

Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data		D Identifying Symbol	Concerns only the manufacturer						
											E Cutting Nr.	F Make	G Origin	H Remarks			
A	1	100001239	CIRCUIT-BREAKER N-RELEASE 130 A, SIZE S0, STARTER PROTECTION, 100 KA SCREW CONNECTION					3RV1321-1JC10		-Q1	16 Dia	SIEMENS					
	1	100000958	CONTACTOR, AC-3 11 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S0, SCREW CONNECTION					3RT1026-1AP00		-KM		SIEMENS					
	1	100001127	OVERLOAD RELAY, 7...10 A, 1NO+1NC, SIZE S0, CLASS 10, FOR CONTACTOR MOUNTING FOR CONTACTOR MOUNTING					3RU1126-1JB0		-F4		SIEMENS					
	1	100618628	ZCT, Toroid Type, Dia: 35mm					BZCT035		-T4		BROYCE					
	1	101457037	Earth Leakage Relay, 230 VAC					ELRM44V-30: EARTH LEAKAGE RELAY 230VAC		-F7		BROYCE					
	B	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC					3TH4022-0XP0			-K1, -K2			SIEMENS		
		2	100000781	AUX. SWITCH BLOCK, 1NO+1NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION, SIZE S0...S12, FOR CONTACTORS FOR SWITCHING MOTORS, 2-POLE					3RH1921-1EA11			for KM			SIEMENS		
		1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM					5SY4106-7			-F11			SIEMENS		
		1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON					XD16-11ZS			-S10			XIDER		
		1	100001285	SIGNALLING SWITCH FOR SIZE S0...S3 FOR SIZE S0...S3 FOR SIZE S0...S3					3RV1921-1M			for Q1			SIEMENS		
1	100001271	AUXIL. SWITCH, TRANSVERSE 1NO + 1NC, F. CIRCUIT-BREAKER, SIZE S00,S0,S2,S3 SIZE S00,S0,S2,S3					3RV1901-1E		for Q1	SIEMENS							
1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON					3SB3000-0EA11			SIEMENS							
1	102136513	DOOR-COUPLING ROTARY OPER.MECH. SIZE 1 HANDLE, BLACK MASKING PLATE, GREY WITH SHORT COUPLING DRIVER					8UC7161-1BD10		for Q1	SIEMENS							
1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia					AD16-16D/S:LED - RED 230VAC/DC-Xider		-H1	16 Dia	XIDER		for ON Status				
1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia					AD16-16D/S:LED - GREEN 230VAC/DC-Xider		-H2	16 Dia	XIDER		for OFF Status				
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	4 kW Motor Feeder Starting Method: DOL Type: M2	SB No. 3004565200		P.O. No. 800003211633			
B	As shown		-01-16	MB	Worked	MB						SB-E No.					
A	As shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT					A6585		(3)G76003-A6585-L164-C			
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(d)	Qty: 03	SB-E	Component List		A6585		(3)G76003-A6585-L164-C		Sheet 1 2 shs	

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Rev	Qty	Mat Code	B Description & Function					C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>		D Identifying Symbol	Concerns only the manufacturer					
											E Cutting Nr.	F Make	G Origin	H Remarks		
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia					AD16-16D/S:LED - YELLOW 230VAC/DC-Xider		-H3	16 Dia	XIDER		for TRIP Status		
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,					3SB2202-0AE01		-S20	16 Dia	SIEMENS		For Lamp Test		
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO					3TH4040-0XP0		-K10		SIEMENS				
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12					3RU1900-1C		-S15		SIEMENS				
C	1	102206386	Direct Analog Ammeter, Scale 0-10/20A Scale 0-10/20A Scale 0-10/20A					EQ48 Direct Ammeter, Scale 0-10/20A		-P2		ZIEGLER				
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	4 kW Motor Feeder Starting Method: DOL Type: M2	SB No. 3004565200		P.O. No. 800003211633		
B	As shown		-01-16	MB	Worked	MB										
A	As shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT									
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(d)	Qty: 03	SB-E	Component List		SB-E No. A6585		(3)G76003-A6585-L164-C		Sheet 2 2 shs

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer							
						E	F	G	H				
						Cutting Nr.	Make	Origin	Remarks				
	1		WITHDRAWABLE ACB, 3200A, 4P, 66 KA, SIZE II, WITH GUIDE FRAMES AND HORIZONTAL MAIN CIRCUIT CONNECTION, WITH 230 VAC MOTORIZED OPERATING MECHANISM, 230 VAC CLOSING COIL, 230 VAC SHUNT COIL, AUXILIARY SWITCH BLOCK 2NO + 2 NC, DOOR SEALING FRAMES, 5 DIGIT MECHANICAL OPERATING CYCLES COUNTER, SHUTTERS, MODBUS RTU INTERFACE, INTERNAL CT FOR N CONDUCTOR, POSITION SIGNALING SWITCHES, LOCKING DEVICES.	3WL1232-2EG46-4GA2-ZT40+C01+R21+F12+F23+R15+R30	-Q1		SIEMENS						
	1	100097259	ACCESSORIES CIRCUIT BREAKER 3WL SEALING DISC FOR ETU25-75 FOR PROT. AGAINST UNAUTHOR. OPERATION	3WL9111-0AT45-0AA0	for -Q1		SIEMENS						
	1	100083074	ACCESSORIES CIRCUIT BREAKER 3WL DIGITAL OUTPUT MODULE PARAMETER., W. RELAY OUTP. FOR CUBICLE BUS MODULE	3WL9111-0AT20-0AA0	-Q11 (for -Q1)		SIEMENS						
	1		READY-MADE CABLING F. CUBICLE BUS MODULE 1 M LONG	3WL9111-0BC02-0AA0	for -Q1		SIEMENS						
B	3		Plug-in current atrnsformer (E)ASK 123.3 3000/1A Kl.1 10VA	MBS 24261	-T1-3		MBS						
A	3	100609371	CONTROL FUSES 6A	420106	-F1-3		DF Spain						
	3	100609372	Control Fuse Base 32A 480032	480032: CONTROL FUSE BASE 32A	for -F1-3								
	1	102317053	SENTRON PAC3100; LCD; 96X96MM POWER MONITORING DEVICE PANEL MOUNT TYPE FOR MEASUREMENT OF ELECTR. VALUES	7KM3133-0BA00-3AA0	-P3	M002	SIEMENS						
	1	106020980	3-Phase AC Voltage Relay, Undervoltage, Overvoltage, Phase Sequence, Phase Failure Protection Emirel Make Emirel Make	E444N-30-A: 3 PHASE AC VOLTAGE RELAY	-F10		EMIREL						
	2	102934250	RED 22dia, 220VAC/DC (Make Xider)	AD22-22D/S:LED - RED 220VAC/DC-Xider	-H1, -H4	TL01	XIDER		for Red Phase for ACB ON status				
	4	102934244	YELLOW 22dia, 220VAC/DC (Make Xider)	AD22-22D/S:LED - YELLOW 220VAC/DC-Xider	-H2, -H6, -H7, -H8	TL01	XIDER		for Yellow Phase for ACB TRIP status				
	1	102934253	BLUE 22dia, 220VAC/DC (Make Xider)	AD22-22D/S:LED - BLUE 220VAC/DC-Xider	-H3	TL01	XIDER		for Blue Phase				
	1	105099487	GREEN 22dia 220 VAC / VDC Make Xider	AD22-22D/S:LED - GREEN 220VAC/VDC - Xider	-H5	TL01	XIDER		for ACB OFF status				
	13	100454948	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NC	3TH4244-0XP0	-K1, -K1A, -K1B, -K4, -K7, -K8, -K12, -K15, -K20, -K21, -K22, -K31, -K32		SIEMENS						
	2	100488721	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC	3TH4022-1XB4	-K44, -K55		SIEMENS						
B	As shown	-12-15	MB	Worked	MB	DESCON ENGINEERING LIMITED		SIEMENS PAKISTAN	MCC # 05, Incoming ACB, 3200A, 4P	SB No. 3004565200		P.O. No. 800003211633	
A	As shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT				SB-E No. A6585		(3)G76003-A6585-L161- B	
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(a)	Qty: 02	SB-E	Component List		2 shs		

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
	1	100231444	CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 6A 10KA, 2-POLE, C, 6A	5SY5206-7	-F11		SIEMENS		
	1	100617502	22dia, Color : RED Make Xider	Push Button: LAY5-BA42 RED -Xider	-S1	TL01	XIDER		For ACB ON (Local)
B	2	100617232	22dia, GREEN Make Xider	Push Button: LAY5-BA31 GREEN -Xider	-S2, S20	TL01	XIDER		For ACB OFF (Local) For Lamp Test
B	1	105569242	SITOP PSU100S 24 V/5 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/5 A DC	6EP1333-2BA20	-T20		SIEMENS		
	1		Reset Push Button "Black", with 1NC contact, 22DIA	LAY5-BA21 + ZB2-BE102	-S7		XIDER		For Lockout Reset
B	2	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0	-K50, -K50A		SIEMENS		
B	21		Control Terminals suitable for 4mm2 cable		X1: 1-21		Wied Muller		

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Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer								
						E	F	G	H					
						Cutting Nr.	Make	Origin	Remarks					
	1		WITHDRAWABLE ACB, 3200A, 4P, 66 KA, SIZE II, WITH GUIDE FRAMES AND HORIZONTAL MAIN CIRCUIT CONNECTION, WITH 230 VAC MOTORIZED OPERATING MECHANISM, 230 VAC CLOSING COIL, 230 VAC SHUNT COIL, AUXILIARY SWITCH BLOCK 2NO + 2 NC, DOOR SEALING FRAMES, 5 DIGIT MECHANICAL OPERATING CYCLES COUNTER, SHUTTERS, MODBUS RTU INTERFACE, INTERNAL CT FOR N CONDUCTOR, POSITION SIGNALING SWITCHES, LOCKING DEVICES.	3WL1232-2EG46-4GA2-ZT40+C01+R21+F12+F23+R15+R30	-Q1		SIEMENS							
	1	100097259	ACCESSORIES CIRCUIT BREAKER 3WL SEALING DISC FOR ETU25-75 FOR PROT. AGAINST UNAUTHOR. OPERATION	3WL91111-0AT45-0AA0	for -Q1		SIEMENS							
	1	100083074	ACCESSORIES CIRCUIT BREAKER 3WL DIGITAL OUTPUT MODULE PARAMETER., W. RELAY OUTP. FOR CUBICLE BUS MODULE	3WL91111-0AT20-0AA0	-Q11 (for -Q1)		SIEMENS							
	1		READY-MADE CABLING F. CUBICLE BUS MODULE 1 M LONG	3WL91111-0BC02-0AA0	for -Q1		SIEMENS							
B	1	102934250	RED 22dia, 220VAC/DC (Make Xider)	AD22-22D/S:LED - RED 220VAC/DC-Xider	-H4	TL01	XIDER		for ACB ON status					
B	1	102934244	YELLOW 22dia, 220VAC/DC (Make Xider)	AD22-22D/S:LED - YELLOW 220VAC/DC-Xider	-H6	TL01	XIDER		for ACB TRIP status					
	1	105099487	GREEN 22dia 220 VAC / VDC Make Xider	AD22-22D/S:LED - GREEN 220VAC/VDC -Xider	-H5	TL01	XIDER		for ACB OFF status					
B	17	100454948	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NC	3TH4244-0XP0	-K1, -K1A, -K3, -K4, -K8, , -K10, ,K11, -K12, -K13, -K15, -K20, -K21, -K22, -K23, -K33, -K41, -K200		SIEMENS							
A	2	100488721	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC	3TH4022-1XB4	-K44, -K55		SIEMENS							
	1	100231444	CIRCUIT BREAKER CURR. SENS DC 440V AC 400V 10KA, 2-POLE, C, 6A 10KA, 2-POLE, C, 6A	5SY5206-7	-F11		SIEMENS							
	1	100617502	22dia, Color : RED Make Xider	Push Button: LAY5-BA42 RED -Xider	-S1	TL01	XIDER		For ACB ON (Local)					
B	2	100617232	22dia, GREEN Make Xider	Push Button: LAY5-BA31 GREEN -Xider	-S2, S20	TL01	XIDER		For ACB OFF (Local) For Lamp Test					
B	1	105569242	SITOP PSU100S 24 V/5 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/5 A DC	6EP1333-2BA20	-T20		SIEMENS							
C	As Shown		-02-16	MB	Date	13-11-15	DESCON ENGINEERING LIMITED		SIEMENS PAKISTAN	MCC # 05, Bus Coupler ACB, 3200A, 4P	SB No. 3004565200			P.O. No. 800003211633
B	As Shown		-11-15	MB	Worked	MB					SB-E No. A6585			
A	As Shown		-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT				(3)G76003-A6585-L162- C			Sheet 1
Index	Alteration	Date	Name	Approved	SMY	Item #:	5(b)	Qty: 01	SB-E	Component List				2 sh

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Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data			D Identifying Symbol	Concerns only the manufacturer			
								E Cutting Nr.	F Make	G Origin	H Remarks
B	1	100908249	Manual-OFF-Auto Make Giovenzana	P0160011R001: SELECTOR SWITCH 4P, 16A			-S6	Gio 01	Giovenzana		
C	1	100123479	22MM ROUND METAL ACTUATOR: RONIS LOCK WITH 2 KEYS MAINTAINED CONTACT	3SB3500-4DD11			-S11	22Dia	SIEMENS		
A	1	100123231	ACTUATOR-/INDICATOR COMPONENT CONTACT BLOCK WITH 2 CONTACTS SCREW TERMINAL, 1NO LEADING,	3SB3400-0H			for -S11		SIEMENS		
C	1	100001955	ACTUATOR-/INDICATOR COMPONENT CONTACT BLOCK WITH 2 CONTACTS SCREW TERMINAL, 1NO+1NC	3SB3400-0A			for -S11		SIEMENS		
A	1	100097105	ACCESSORY / SPARE PART FOR PLASTIC-/METAL PROGRAM ROUND, 22MM/SQUARE, 26X26MM: HOLDER FOR SELECTOR SWITCH,KEY-	3SB3901-0AC			for -S11		SIEMENS		
	4	100000856	TIME RELAY, MOUNT. ON-DELAY 2 W, 15 TIME SETTING RANGES, 0.05 S...100 H, AC/DC 24. 240 V,	3RP1525-1BW30			-KD,100,101,102		SIEMENS		
A	1	100922573	Synch Check Rleay	70SCRD-Synch.Check.Relay(Dead Bus)			-F25		BROYCE		
B	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0			-K50		SIEMENS		
B	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC	3TH4022-0XP0			-KX, -K17		SIEMENS		
B	1		Reset Push Button "Black", with 1NC contact, 22DIA	LAY5-BA21 + ZB2-BE102			-S7		XIDER		For Lockout Reset
C	As Shown	-02-16	MB	Date	13-11-15	DESCON ENGINEERING LIMITED		SB No.		P.O. No.	
B	As Shown	-11-15	MB	Worked	MB			3004565200		800003211633	
A	As Shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT		SB-E No.		Sheet 2	
Index	Alteration	Date	Name	Approved	SMY	Item #: 5(b)	Qty: 01	SB-E	Component List	A6585	(3)G76003-A6585-L162- C 2 shs

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1	100111825	CIRCUIT-BREAKER VL 630H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION	3VL5750-2DC36-0AA0	-Q1		SIEMENS		
	1	101718653	ACCESSORY FOR VL630, VL800, DOOR OP.MECH. 8UC7 - NEW DESIGN HANDLE TI-GREY,	3VL9600-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1	100436989	CIRCUIT-BREAKER VL 400H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION	3VL4740-2DC36-0AA0	-Q1		SIEMENS		
	1	101718650	ACCESSORY FOR VL400, FOR INSTALLAT. IN DOORS, COMPL. DOOR DRIVE 8UC7	3VL9400-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer							
						E	F	G	H				
						Cutting Nr.	Make	Origin	Remarks				
B	1	100111698	CIRCUIT-BREAKER VL 250H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION	3VL3720-2DC36-0AA0	-Q1		SIEMENS		Not to be multiplied with feeder qty				
B	2	102314619	CIRCUIT-BREAKER VL 250H HIGH SWITCHING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION	3VL3720-2AE33-0AD1-Z	-Q1		SIEMENS		Not to be multiplied with feeder qty				
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		Not to be multiplied with feeder qty				
C	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		Used from VR				
C	As shown	MB	-02-16	Date	13-11-15	DESCON ENGINEERING LIMITED		200 A Feeder Type: F	SB No. 3004565200		P.O. No. 800003211633		
B	As shown	-12-15	MB	Worked	MB	SIEMENS PAKISTAN							
A	Qty Updated	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT			SB-E No. A6585		(3)G76003-A6585-L179- C		
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(s)	Qty: 03	SB-E	Component List				Sheet 1 1 sh

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1	100111650	CIRCUIT-BREAKER VL 160H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION	3VL2712-2DC33-0AA0	-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		

866212D

Rev	Qty	Mat Code	<div>B</div> <div>Description & Function</div>				<div>C</div> <div>Identification Data</div> <div>Type Order no. document no.equipment code no. basic technical data</div>		<div>D</div> <div>Identifying Symbol</div>	Concerns only the manufacturer			
										<div>E</div> <div>Cutting Nr.</div>	<div>F</div> <div>Make</div>	<div>G</div> <div>Origin</div>	<div>H</div> <div>Remarks</div>
B	1	100111672	CIRCUIT-BREAKER VL 160H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION				3VL2716-2DC33-0AA0		-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.				3VL9300-3HF05		for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON				3SB3000-0EA11				SIEMENS		
					Date	13-11-15	DESCON ENGINEERING LIMITED		150 A Feeder Type: F	SB No. 3004565200		P.O. No. 800003211633	
B	Qty Updated	-02-16	MB	Worked	MB	OGDCL KPD-TAY PROJECT		SIEMENS PAKISTAN		SB-E No. A6585		(3)G76003-A6585-L177- B	
A	Qty Updated	-11-15	MB	Checked	UBA	Item #: 05(q)		Qty: 01		Component List		Sheet 1 1 shs	
Index	Alteration	Date	Name	Approved	SMY								

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1	100111636	CIRCUIT-BREAKER VL 160H HIGH BREAKING CAPACITY ICU=70KA / 415 V AC 3 POLE, LINE PROTECTION	3VL2710-2DC33-0AA0	-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		
				</					

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1	100111620	CIRCUIT-BREAKER VL160X 32A H HIGH BREAKING CAPACITY ICU=70 KA / 415V AC, 3 POLE, LINE PROTECTION.	3VL2708-2DC33-0AA0	-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		

866212D

Rev	Qty	Mat Code	<div>B</div> <div>Description & Function</div>				<div>C</div> <div>Identification Data</div> <div>Type Order no. document no.equipment code no. basic technical data</div>		<div>D</div> <div>Identifying Symbol</div>	Concerns only the manufacturer			
										<div>E</div> <div>Cutting Nr.</div>	<div>F</div> <div>Make</div>	<div>G</div> <div>Origin</div>	<div>H</div> <div>Remarks</div>
B	1		CIRCUIT-BREAKER VL160X 32A H HIGH BREAKING CAPACITY ICU=70 KA / 415V AC, 3 POLE, LINE PROTECTION.				3VL1705-2DD33-0AA0		-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.				3VL9300-3HF05		for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON				3SB3000-0EA11				SIEMENS		
					Date	13-11-15	DESCON ENGINEERING LIMITED		50 A Feeder Type: F	SB No. 3004565200		P.O. No. 800003211633	
B	As shown	MB	-02-16	Worked	MB	OGDCL KPD-TAY PROJECT		SIEMENS PAKISTAN		SB-E No. A6585		(3)G76003-A6585-L174- B	
A	Qty Updated	-11-15	MB	Checked	UBA	Item #: 05(n)		Qty: 04	SB-E	Component List		Sheet 1 1 shs	
Index	Alteration	Date	Name	Approved	SMY								

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1		CIRCUIT-BREAKER VL160X 32A H HIGH BREAKING CAPACITY ICU=70 KA / 415V AC, 3 POLE, LINE PROTECTION.	3VL1704-2DD33-0AA0	-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
						E Cutting Nr.	F Make	G Origin	H Remarks
A	1		CIRCUIT-BREAKER VL160X 32A H HIGH BREAKING CAPACITY ICU=70 KA / 415V AC, 3 POLE, LINE PROTECTION.	3VL1703-2DD33-0AA0	-Q1		SIEMENS		
	1	101705786	ACCESSORY FOR VL160X, VL160, VL250 DOOR-COUPLING OPERAT. MECHANISM FOR INSTALLAT. IN DOORS, COMPL.	3VL9300-3HF05	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON	3SB3000-0EA11			SIEMENS		

866212D

Rev	Qty	Mat Code	B Description & Function				C Identification Data		D Identifying Symbol		Concerns only the manufacturer					
							Type Order no. document no.equipment code no. basic technical data		E Cutting Nr.		F Make		G Origin		H Remarks	
	12		Control Transformer 400/230 V, 250 VA				ETC-0250		-T2 (for Modular Panels) -T7 (for Incomer & Coupler Panels)			ELEKTRA		Used from VR		
A	12	100023467	CIRCUIT BREAKER T55 400V, 10KA, 3-POLE, C, 2A				5SX4302-7		-F21			SIEMENS				
A	12	100023513	CIRCUIT BREAKER T55 CURR. SENS 2-POLE, C, 10A DC 440V 10KA, AC 400V 4,5KA DC 440V 10KA, AC 400V 4,5KA				5SX5210-7		-F23			SIEMENS				
A	11	100469557	HEATER 120-240 V, 60 W HG140 14005.0-00 HG140 14005.0-00				8MR2130-6A		-E1			SIEMENS				
A	11	104810777	Thermostat ET – H 0060 C 250VAC Make: Pacific Make: Pacific				ET–H 0060 C 250VAC Thermostat Pacific		-B1			PACIFIC				
					Date	10-11-15	DESCON ENGINEERING LIMITED			SIEMENS PAKISTAN	Control Transformer for MCC # 05	SB No. 3004565200			P.O. No. 800003211616	
B	Make Updated		-02-16	MB	Worked	MB										
A	As Shown		-01-16	MB	Checked	UBA	OGDCL KPD-TAY PROJECT					SB-E No. A6585			(3)G76003-A6585-L182 B	
Index	Alteration		Date	Name	Approved	SMY	Item #: 05(v)	Qty: 01	SB-E	Component List						

Rev	Qty	Mat Code	B Description & Function					C Identification Data Type Order no. document no.equipment code no. basic technical data	D Identifying Symbol	Concerns only the manufacturer			
										E	F	G	H
										Cutting Nr.	Make	Origin	Remarks
B	1	100001239	CIRCUIT-BREAKER N-RELEASE 130 A, SIZE S0, STARTER PROTECTION, 100 KA SCREW CONNECTION					3RV1321-1JC10	-Q1		SIEMENS		
	1	100000958	CONTACTOR, AC-3 11 KW/400 V, AC 230 V, 50 HZ, 3-POLE, SIZE S0, SCREW CONNECTION					3RT1026-1AP00	-KM		SIEMENS		
	1	100001127	OVERLOAD RELAY, 7...10 A, 1NO+1NC, SIZE S0, CLASS 10, FOR CONTACTOR MOUNTING FOR CONTACTOR MOUNTING					3RU1126-1JB0	-F4		SIEMENS		
	2	100469573	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 2NO+2NC					3TH4022-0XP0	-K1, -K2		SIEMENS		
	2	100000781	AUX. SWITCH BLOCK, 1NO+1NC, DIN EN50005, LATERALLY, 10 MM SCREW CONNECTION, SIZE S0...S12, FOR CONTACTORS FOR SWITCHING MOTORS, 2-POLE					3RH1921-1EA11	for KM		SIEMENS		
	1	100076222	CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM 10KA, 1-POLE, C, 6A, D=70MM					5SY4106-7	-F11		SIEMENS		
	1		MUSHROOM TYPE EMERGENCY STOP PUSH BUTTON					XD16-11ZS	-S10	16 Dia	XIDER		
	1	100001285	SIGNALLING SWITCH FOR SIZE S0...S3 FOR SIZE S0...S3 FOR SIZE S0...S3					3RV1921-1M	for Q1		SIEMENS		
	1	100001271	AUXIL. SWITCH, TRANSVERSE 1NO + 1NC, F. CIRCUIT-BREAKER, SIZE S00,S0,S2,S3 SIZE S00,S0,S2,S3					3RV1901-1E	for Q1		SIEMENS		
	1	100097220	22MM PLASTIC ROUND ACTUATOR: PUSHBUTTON 12MM STROKE WITH RAISED BUTTON					3SB3000-0EA11			SIEMENS		
	1	102136513	DOOR-COUPLING ROTARY OPER.MECH. SIZE 1 HANDLE, BLACK MASKING PLATE, GREY WITH SHORT COUPLING DRIVER					8UC7161-1BD10	for Q1		SIEMENS		
	1	103649017	Indication Lamp "RED", 230 VAC/DC, 16 dia					AD16-16D/S:LED - RED 230VAC/DC-Xider	-H1	16 Dia	XIDER		for ON Status
1	1	104695181	Indication Lamp "GREEN", 230 VAC/DC, 16 dia					AD16-16D/S:LED - GREEN 230VAC/DC-Xider	-H2	16 Dia	XIDER		for OFF Status
	1	103649018	Indication Lamp "YELLOW", 230 VAC/DC, 16 dia					AD16-16D/S:LED - YELLOW 230VAC/DC-Xider	-H3	16 Dia	XIDER		for TRIP Status
C	ASBUILT		-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED		4 kW Motor Feeder Starting Method: DOL Type: M1	SB No.			P. O. No.
B	As shown		-01-16	MB	Worked	MB				3004565200			800003211633
A	As shown		-11-15	MB	Checked	UBA				SB-E No.			Sheet 1
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(c)	Qty: 02	SB-E	Component List	A6585	(3)G76003-A6585-L 163-C		2 shs

866212D

Rev	Qty	Mat Code	B Description & Function	C Identification Data <small>Type Order no. document no.equipment code no. basic technical data</small>	D Identifying Symbol	Concerns only the manufacturer						
						E	F	G	H			
						Cutting Nr.	Make	Origin	Remarks			
A	1	100001824	PUSHBUTTON, 16MM, ROUND, PLASTIC, GREEN,	3SB2202-0AE01	-S20	16 Dia	SIEMENS		For Lamp Test			
A	1	100488780	CONTACTOR RELAY AC-15 380V IE: 6A DC-13 380V IE: 0.25A AUX. SWITCHES: 4NO	3TH4040-0XP0	-K10		SIEMENS					
	1	100074807	CABLE RELEASE WITH HOLDER FOR 3RU11/3RB20/3RB21 SIZE S00...S12 SIZE S00...S12	3RU1900-1C	-S15		SIEMENS					
C	1	102206386	Direct Analog Ammeter, Scale 0-10/20A Scale 0-10/20A Scale 0-10/20A	EQ48 Direct Ammeter, Scale 0-10/20A	-P2		ZIEGLER					
C		ASBUILT	-01-17	RA	Date	13-11-15	DESCON ENGINEERING LIMITED			SB No.	P.O. No.	
B		As shown	-01-16	MB	Worked	MB	SIEMENS			3004565200	800003211633	
A		As shown	-11-15	MB	Checked	UBA	OGDCL KPD-TAY PROJECT			SB-E No.	Sheet 2	
Index	Alteration	Date	Name	Approved	SMY	Item #: 05(c)	Qty: 02	SB-E	Component List	A6585	(3)G76003-A6585-L163-C	2 shs

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Panel No.

P1

P2

P3

P4

D*

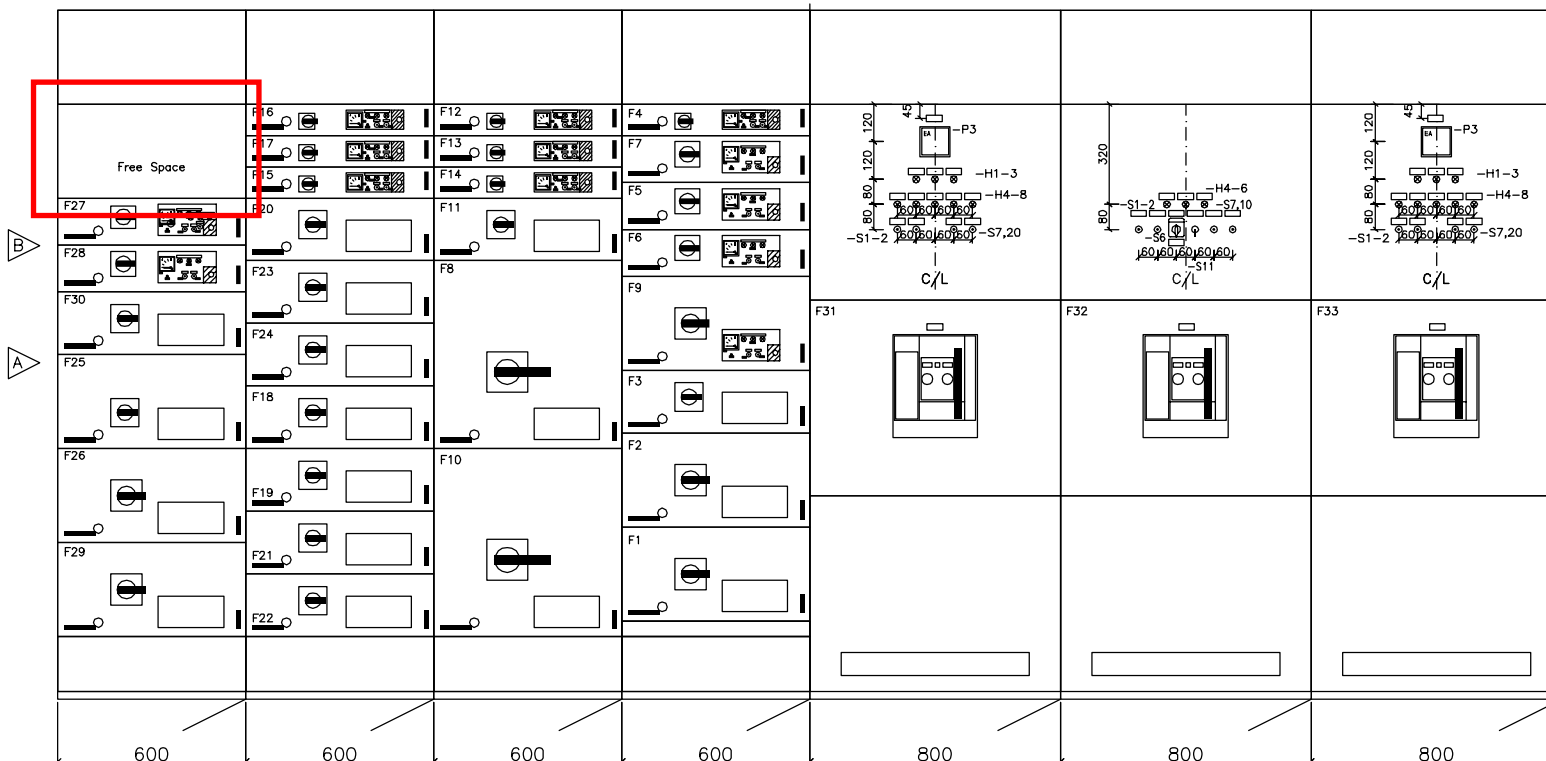
P5

P6

P7

D*

2200.0
2000.0
1800.0
1600.0
1400.0
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0



Panel Width

600

600

600

600

800

800

800

Cable Entry Bottom Rear Connection

Design Sivacon 8PT withdrawable

Class of Protection = IP31

Color = RAL7032 (Siemens Grey)

Rated Voltage = 400/230VAC, 50Hz

Tinned Plated Busbar

MBB : 3Cu,3x100x10

NBB : Cu,2x100x10

EBB : Cu,80x10

* Transport Disconnection

103-MCC-05

Plant depth [mm]: 1200

Plant width [mm]: 7200

Tolerance as per DIN7168 (Medium)

				Date	−11−15	Descon Engineering Ltd. OGDCL KPD−TAY Project	SIEMENS Pakistan	103−MCC−05	SB No. 3−4565200	P.O.No.8−3211633		
B	ASBUILT	−01−17	RA	Worked	Kamran							
A	Revised	−12−15	Kamran	Checked	Burhan							
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Disp./Front View Drg.	SBE No. A6585	(3)G76003−A6585−A194−B	Sh. 1 4 Shs

Disp./Front View Drg.

A

B

C

D

E

F

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Standard:
Plan:
Group:

Panel No.

P8

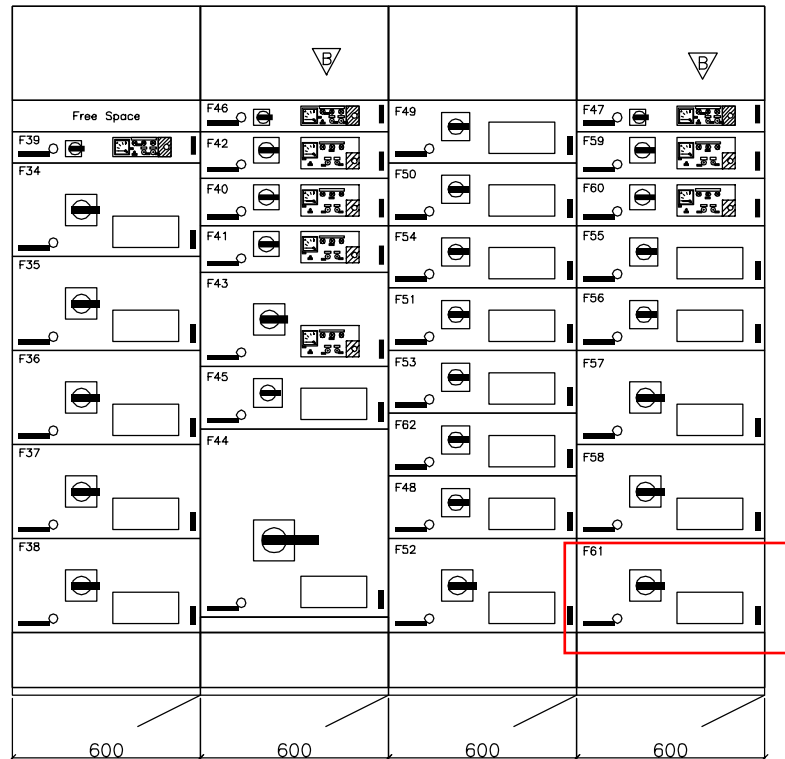
P9

P10

P11

2200.0
2000.0
1800.0
1600.0
1400.0
1200.0
1000.0
800.0
600.0
400.0
200.0
0.0

Panel Width



Cable Entry Bottom Rear Connection

Design Sivacon 8PT withdrawable
Class of Protection = IP31
Color = RAL7032 (Siemens Grey)
Rated Voltage = 400/230VAC, 50Hz
Tinned Plated Busbar
MBB : 3Cu,3x100x10
NBB : Cu,2x100x10
EBB : Cu,80x10

* Transport Disconnection

103-MCC-05

Plant depth [mm]: 1200

Plant width [mm]: 7200

Tolerance as per DIN7168 (Medium)

				Date	–11–15	Descon Engineering Ltd. OGDCL KPD–TAY Project	SIEMENS Pakistan	103–MCC–05	SB No. 3–4565200	P.O.No.8–3211633		
B	ASBUILT	–01–17	RA	Worked	Kamran							
A	Revised	–12–15	Kamran	Checked	Burhan							
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Disp./Front View Drg.	SBE No. A6585	(3)G76003–A6585–A194–B	Sh. 2 4 Shs.

A

B

C

D

E

F

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Standard:
Plan:
Group:

Dropper Cu.
Cable Entry Bottom Rear Connection
Design Sivacon 8PT withdrawable
Class of Protection = IP31
Color = RAL7032 (Siemens Grey)
Rated Voltage = 400/230VAC, 50Hz
Tinned Plated Busbar
MBB : 3Cu,3x100x10
NBB : Cu,2x100x10
EBB : Cu,80x10

* Transport Disconnection

103-MCC-05

Plant depth [mm]: 1200

Plant width [mm]: 7200

Tolerance as per DIN7168 (Medium)

				Date	−11−15	Descon Engineering Ltd. OGDCL KPD−TAY Project	SIEMENS Pakistan	103−MCC−05	SB No. 3−4565200		P.O.No.8−3211633					
B	ASBUILT	−01−17	RA	Worked	Kamran											
A	Revised	−12−15	Kamran	Checked	Burhan											
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Disp./Front View Drg.	SBE No. A6585		(3)G76003−A6585−A194−B		Sh. 3 4 Shs.		

Floor Cutouts, Cubicle depth 1200 mm

W Cubicle Width

D Cubicle depth = 1200 mm

○ Tapped hole M12

+ drill hole 14,5 mm

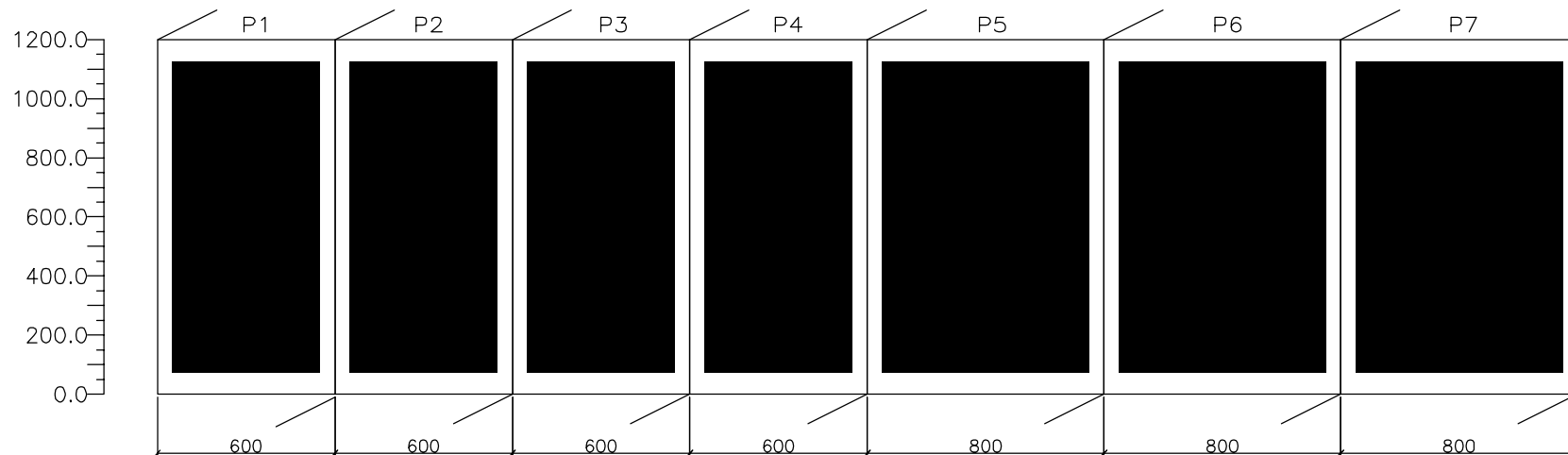


Space for cables and busbar bushings in the fixing place

Attention: partition wall 2 mm

The specified measurements of the switchgear take into account only the cubicle frame.

Enclosure parts and operating devices are not contained in the specified measurements.



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Standard:
Plan:
Group:

Cable Entry Bottom Rear Connection
Design Sivacon 8PT withdrawable
Class of Protection = IP31
Color = RAL7032 (Siemens Grey)
Rated Voltage = 400/230VAC, 50Hz
Tinned Plated Busbar
MBB : 3Cu,3x100x10
NBB : Cu,2x100x10
EBB : Cu,80x10

* Transport Disconnection

103-MCC-05

Plant depth [mm]: 1200

Plant width [mm]: 7200

Tolerance as per DIN7168 (Medium)

				Date	–11–15	Descon Engineering Ltd.		SIEMENS Pakistan	103–MCC–05	SB No. 3–4565200		P.O.No.8–3211633		
B	ASBUILT	–01–17	RA	Worked	Kamran	OGDCL KPD–TAY Project								
A	Revised	–12–15	Kamran	Checked	Burhan									
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Disp./Front View Drg.	SBE No. A6585	(3)G76003–A6585–A194–B			Sh. 4 4 Shs

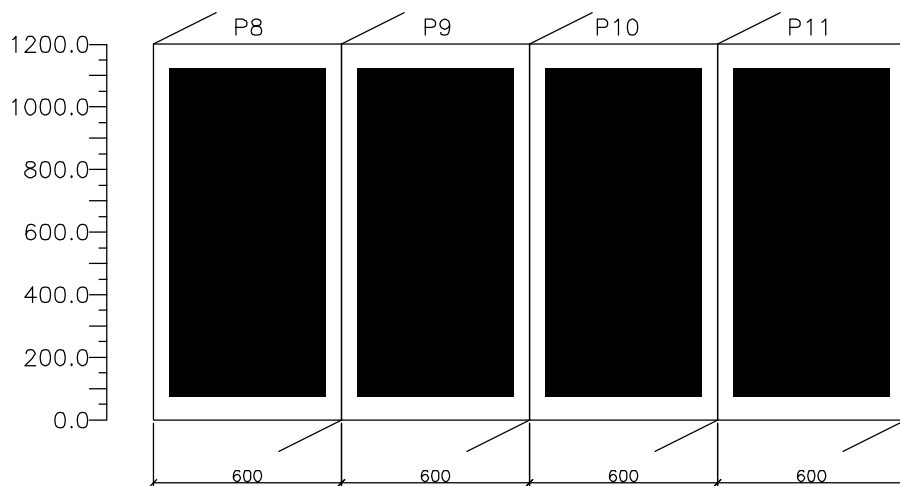
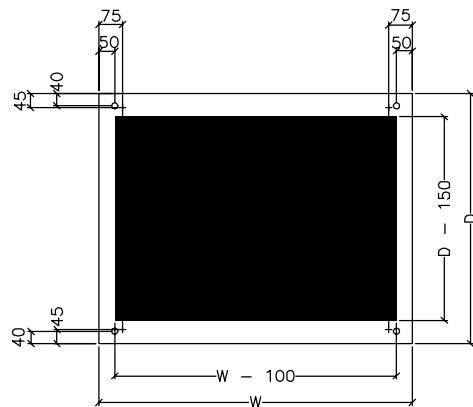
Floor Cutouts, Cubicle depth 1200 mm

- W Cubicle Width
D Cubicle depth = 1200 mm
○ Tapped hole M12
+ drill hole 14,5 mm
■ Space for cables and busbar bushings in the fixing place

Attention: partition wall 2 mm

The specified measurements of the switchgear take into account only the cubicle frame.

Enclosure parts and operating devices are not contained in the specified measurements.



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Standard:
Plan:
Group:

FEEDER NO:

L1-3

01

02

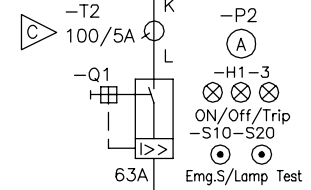
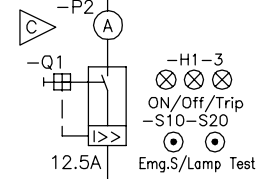
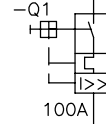
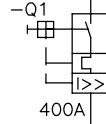
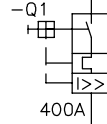
03

4

5

MBB 3Cu. 3x100x10,3500A, 65KA, 400V, 50Hz

BUS-A

NBB Cu. 2x100x10
EBB Cu. 80x10

Cu. Ter. 40x10

Cu. Ter. 40x10

-X1-3

-X1-3

-X1-3

A

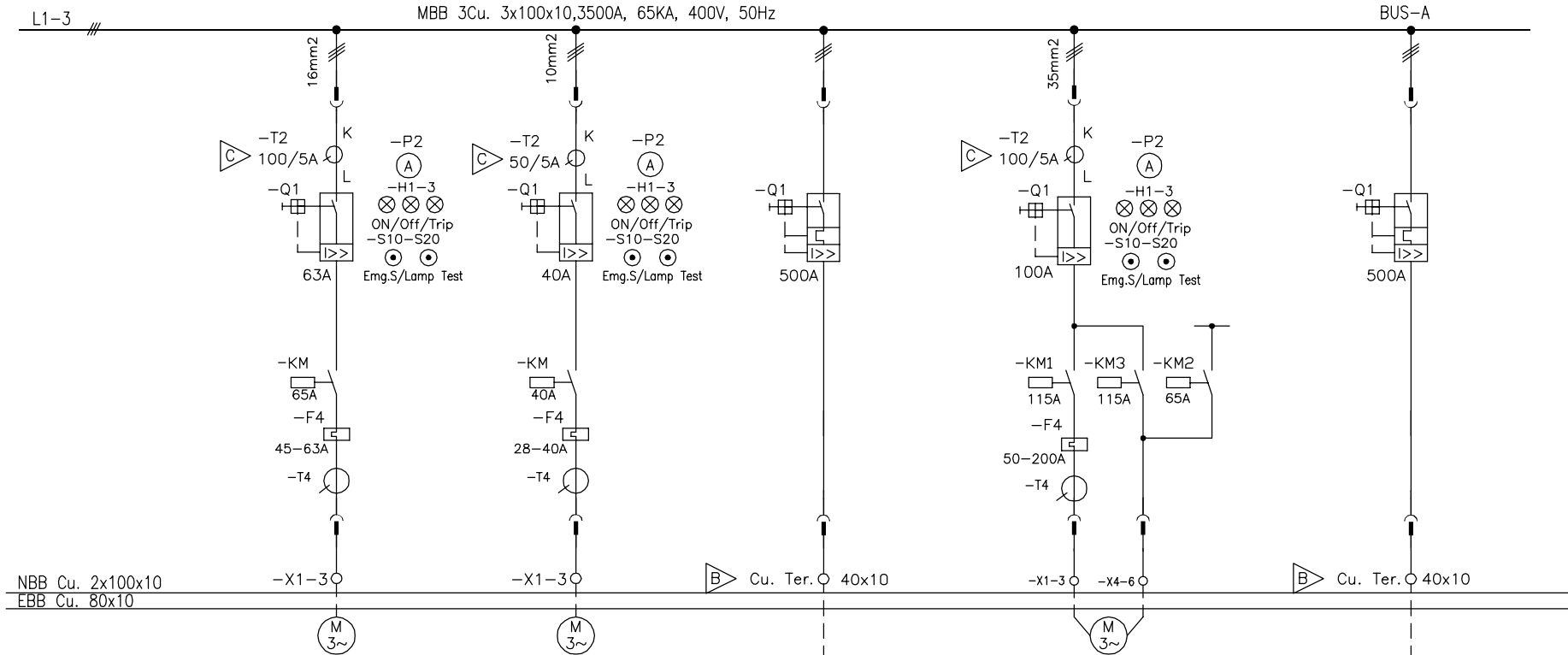
Type	F	F	F	M2	M2
Equipment Tag No.	C-8404	C-8405	C-8406	P-8201A	P-8701A
Description	Gas Genset C8404	Gas Genset C8405	Gas Genset C8406	Flare K0 Motor Pump	Deep Well Pump
Power Rating (kW/A)	140/252.6	140/252.6	40/72.2	5.5/9.9	30/54.1
Schematic Type	---	---	---	S52	S52

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan				SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 1	
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.			13 Shs.	

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Standard:
Plan:
Group:

FEEDER NO:



Type	M2	M2	F	M3	F
Equipment Tag No.	P-8702-A	P-8703A	PU-8700	PM6503A (P-4304A)	PM7701A (P-8801A)
Description	Raw Water Pump	Treated Water Pump-A	Water Treatment Package	Produced Water Disposal Pump "A"	Fine Water Main Pump-A (Electric Motor)
Power Rating (kW/A)	30/54.1	18.5/33.4	208/375.3	55/99.2	160/289A
Schematic Type	S52	S52	---	S53	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan				SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 2	
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.			13 Shs.	

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Standard:
Plan:
Group:

Type	F	M1	M1	M1	M1
Equipment Tag No.	PM7702A (PP-8803A)	PMXXXXA (P-4301A)	PMXXXXB (P-4301B)	PMXXXX (P-4305)	PM6501A (P-4303A)
Description	Fire Water Jockey Pump 'A'	Oily Water Pump 'A'	Oily Water Pump 'B'	Evaporation Pond Pump	Recovered Oil Pump-A
Power Rating (kW/A)	37/66.8	4/7.2	4/7.2	7.5/13.5	5.5/9.9
Schematic Type	---	S51	S51	S51	S51

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan				SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 3	
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.			13 Shs.	

FEEDER NO:

L1-3

11

BUS-A

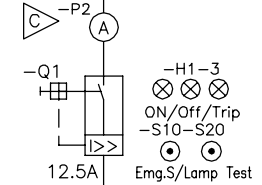
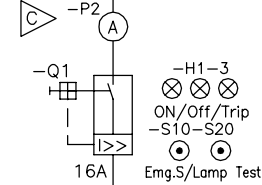
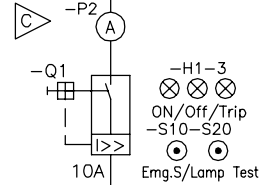
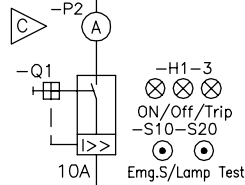
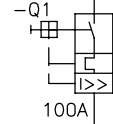
12

MBB 3Cu. 3x100x10,3500A, 65KA, 400V, 50Hz

13

14

15

NBB Cu. 2x100x10
EBB Cu. 80x10

-X1-3

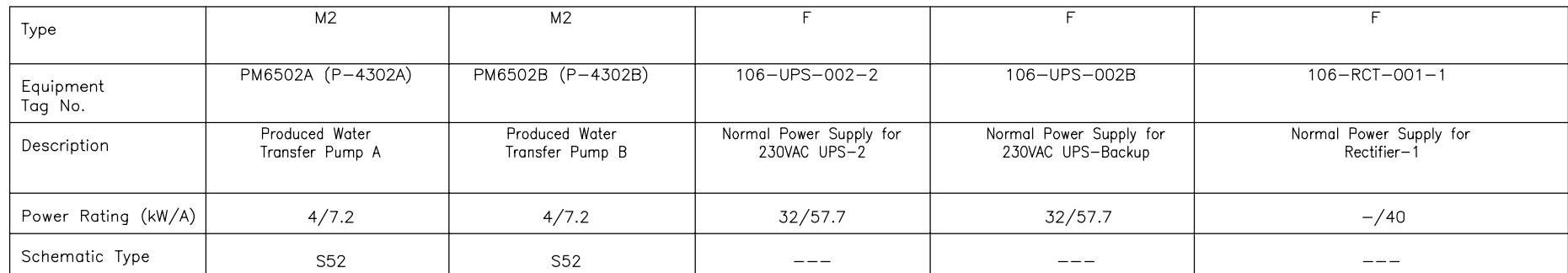
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-X1-3

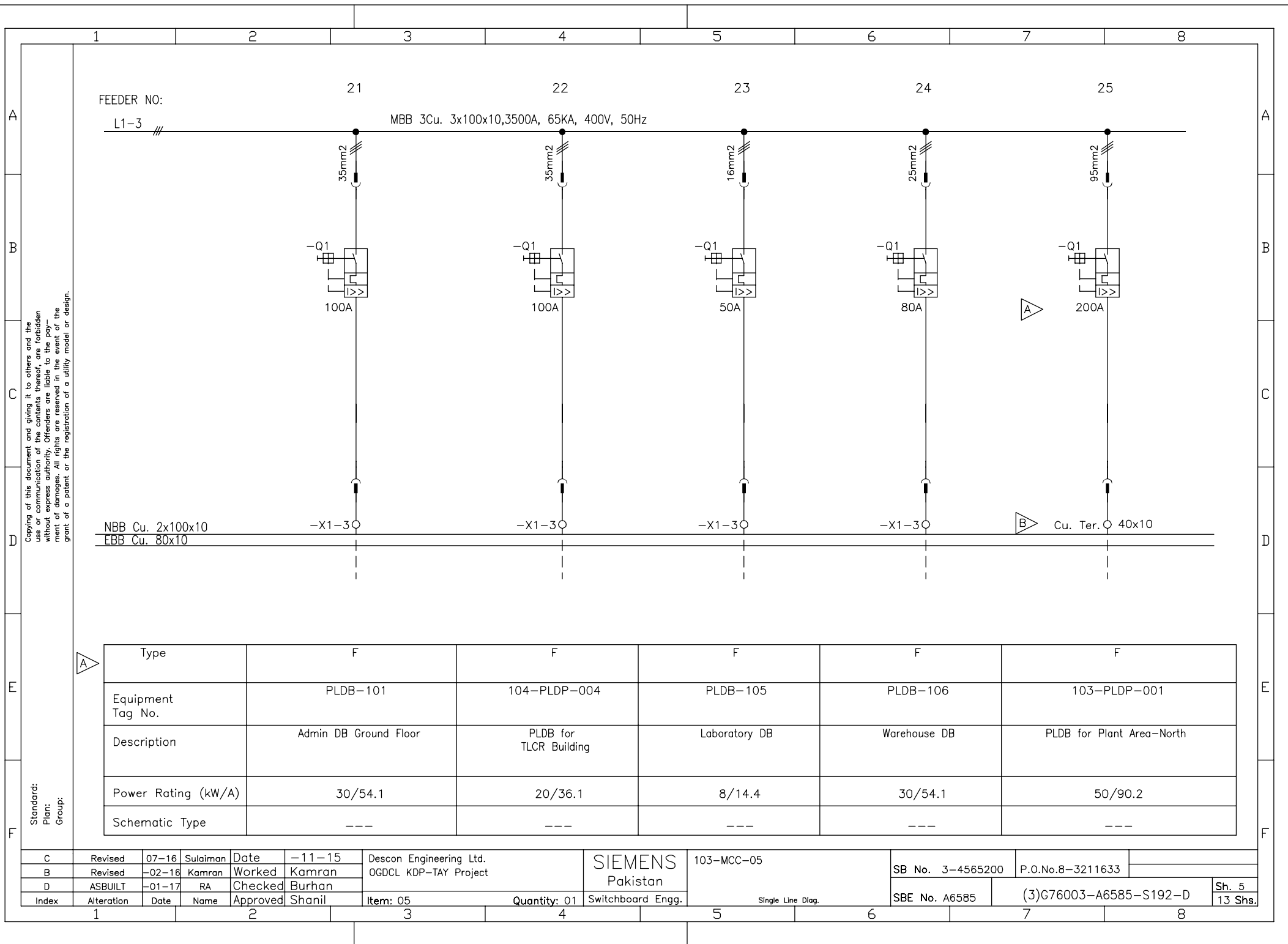
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-X1-3





C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd. OGDCL KDP-TAY Project	SIEMENS Pakistan	103-MCC-05	SB No. 3-4565200		P.O.No.8-3211633			
B	Revised	-02-16	Kamran	Worked	Kamran									
D	ASBUILT	-01-17	RA	Checked	Burhan									
Index	Alteration	Date	Name	Approved	Shanil				Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.	SBE No. A6585	(3)G76003-A6585-S192-D
														13 Shs.



Type	F	F	F	F	F
Equipment Tag No.	PLDB-101	104-PLDP-004	PLDB-105	PLDB-106	103-PLDP-001
Description	Admin DB Ground Floor	PLDB for TLCR Building	Laboratory DB	Warehouse DB	PLDB for Plant Area-North
Power Rating (kW/A)	30/54.1	20/36.1	8/14.4	30/54.1	50/90.2
Schematic Type	---	---	---	---	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd. OGDCL KDP-TAY Project	SIEMENS Pakistan	103-MCC-05	SB No. 3-4565200		P.O.No.8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran							
D	ASBUILT	-01-17	RA	Checked	Burhan							
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.	SBE No. A6585	(3)G76003-A6585-S192-D	Sh. 5 13 Shs.

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Standard:
Plan:
Group:

FEEDER NO:

L1-3

26

27

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30

MBB 3Cu. 3x100x10,3500A, 65KA, 400V, 50Hz

BUS-A

NBB Cu. 2x100x10
EBB Cu. 80x10

Cu. Ter. 40x10

-X1-3

-X1-3

Cu. Ter. 40x10

-X1-3

Type	F	M1	M2	F	F
Equipment Tag No.	PLDB-2 Generator	---	---	---	---
Description	Gen Area Swg - 2	Spare	Spare	Spare	Spare
Power Rating (kW/A)	147/265.2	15/27.1	30/54.1	-/400	-/125
Schematic Type	---	S51	S52	---	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan								
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.	SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 6 13 Shs.

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Standard:
Plan:
Group:

FEEDER NO:

L1-3

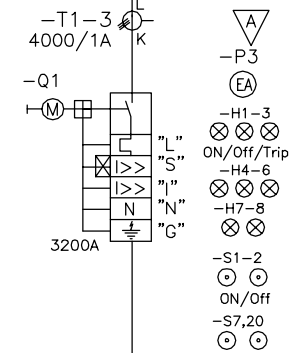
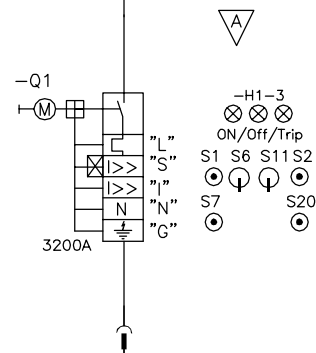
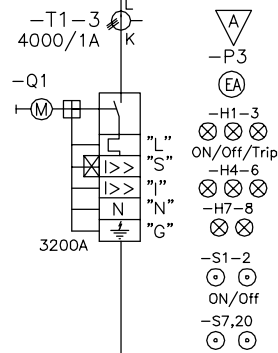
BUS-A

31

32

33

BUS-B



NBB Cu. 2x100x10
EBB Cu. 80x10

Through BTD

Equipment Tag No.	---	---	---
Description	Incoming-1	Bus Coupler	Incoming-2
Power Rating (kW/A)	3200A	3200A	3200A
Schematic Type	S701	S702	S703

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan								
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.	SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 7 13 Shs.

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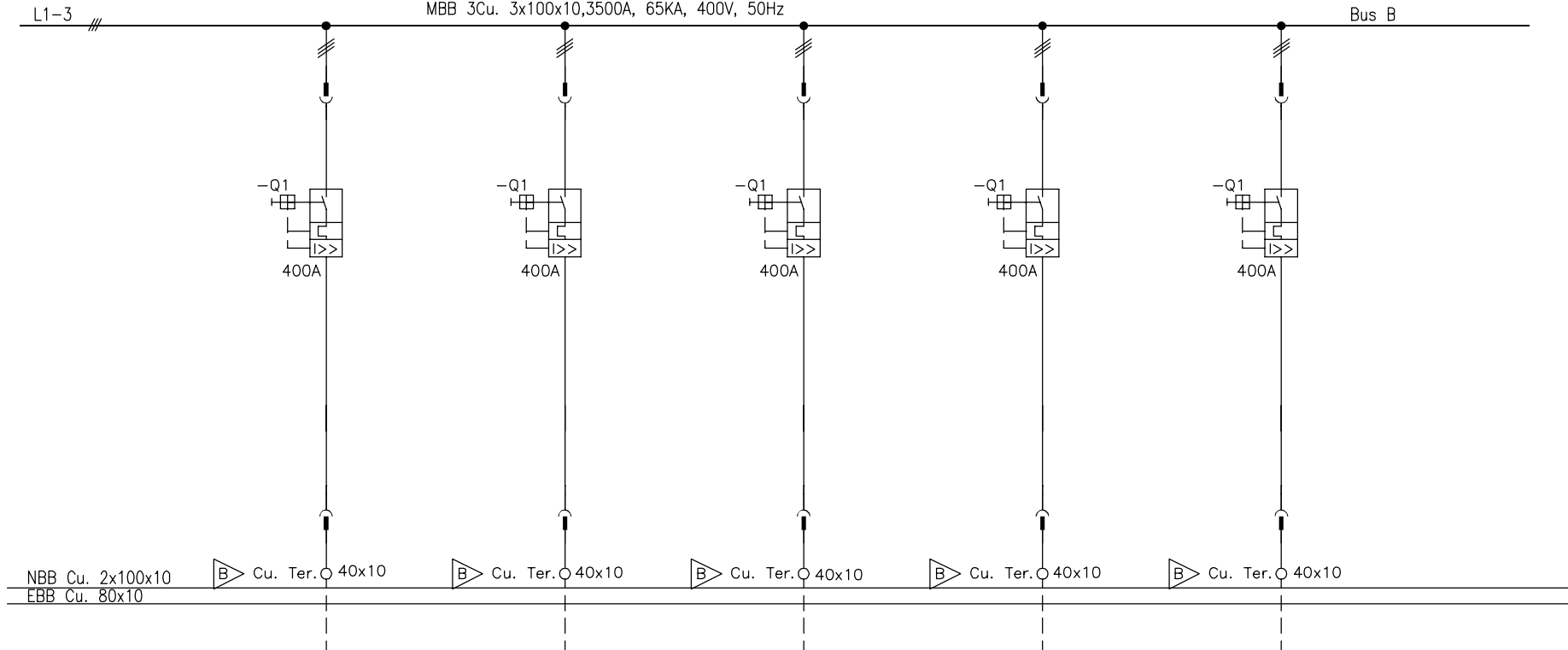
7

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Standard:
Plan:
Group:

FEEDER NO:



Type	F	F	F	F	F
Equipment Tag No.	C-8401	C-8402	C-8403	AA01	AA02
Description	Gas Genset C8401	Gas Genset C8402	Gas Genset C8403	0.4kV Swgr.	0.4kV Swgr.
Power Rating (kW/A)	140/252.6	140/252.6	140/252.6	147/265.2	147/265.2
Schematic Type	---	---	---	---	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS Pakistan	103-MCC-05	SB No. 3-4565200	P.O.No.8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project					
D	ASBUILT	-01-17	RA	Checked	Burhan						
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	SBE No. A6585	(3)G76003-A6585-S192-D	Sh. 8 13 Shs.

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Standard:
Plan:
Group:

FEEDER NO:

L1-3

NBB Cu. 2x100x10
EBB Cu. 80x10

39

40

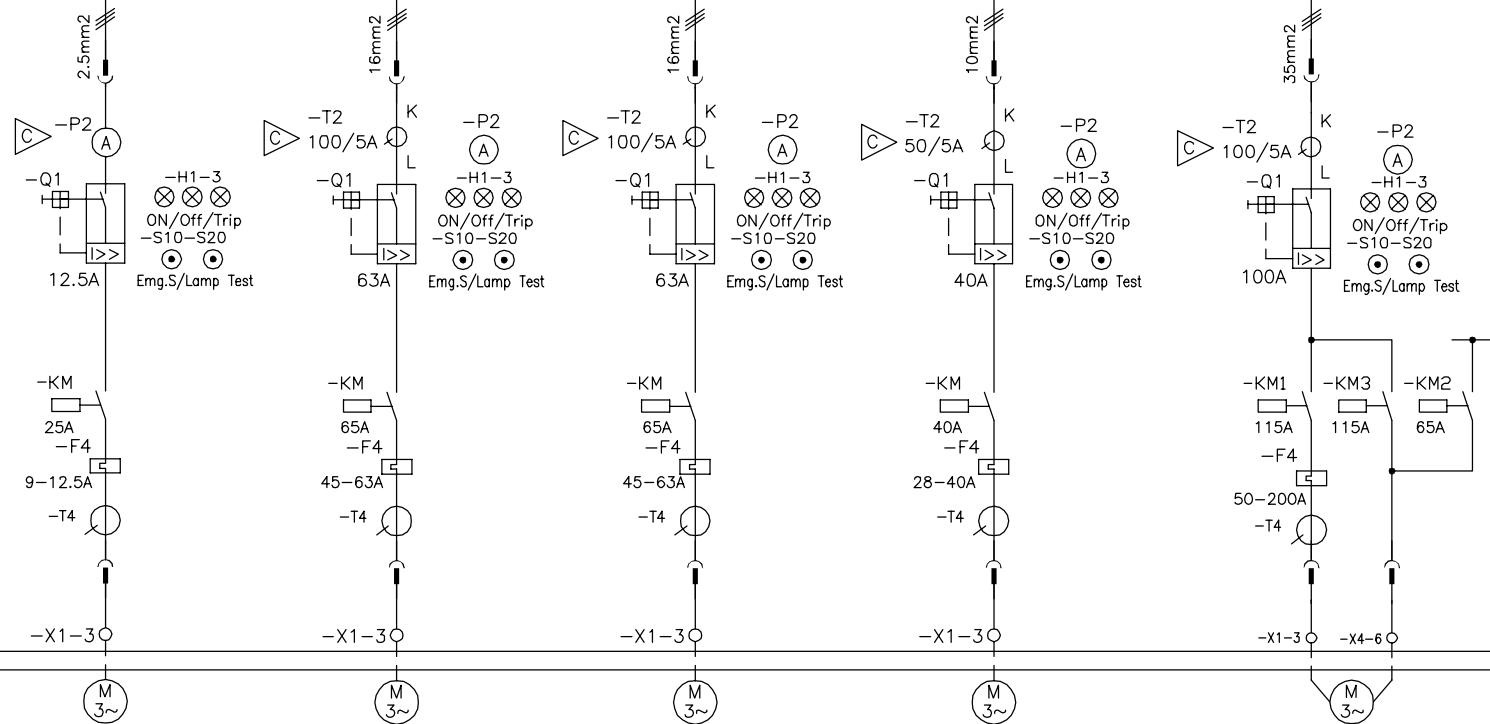
41

42

43

MBB 3Cu. 3x100x10, 3500A, 65KA, 400V, 50Hz

BUS-B



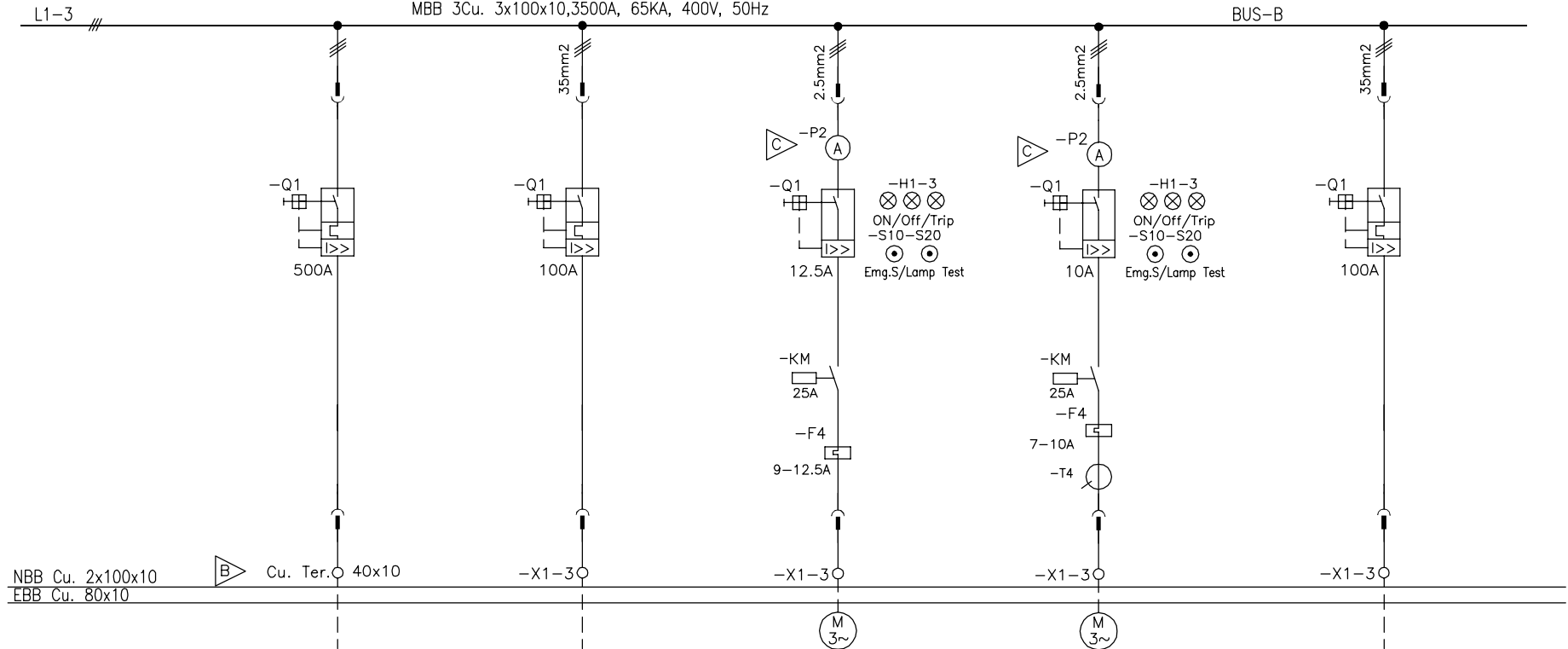
Type	M2	M2	M2	M2	M3
Equipment Tag No.	P-8201B	P-8701B	P-8702B	P-8703B	PM6503B (P-4304B)
Description	Flare KO Motor Pump-B	Deep Well Pump	Raw Water Pump	Treated Water Pump B	Produced Water Disposal Pump-B
Power Rating (kW/A)	5.5/9.9	30/54.1	30/54.1	18.5/33.4	55/99.2
Schematic Type	S52	S52	S52	S52	S53

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan				SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 9	
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.			13 Shs.	

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Standard:
Plan:
Group:

FEEDER NO:



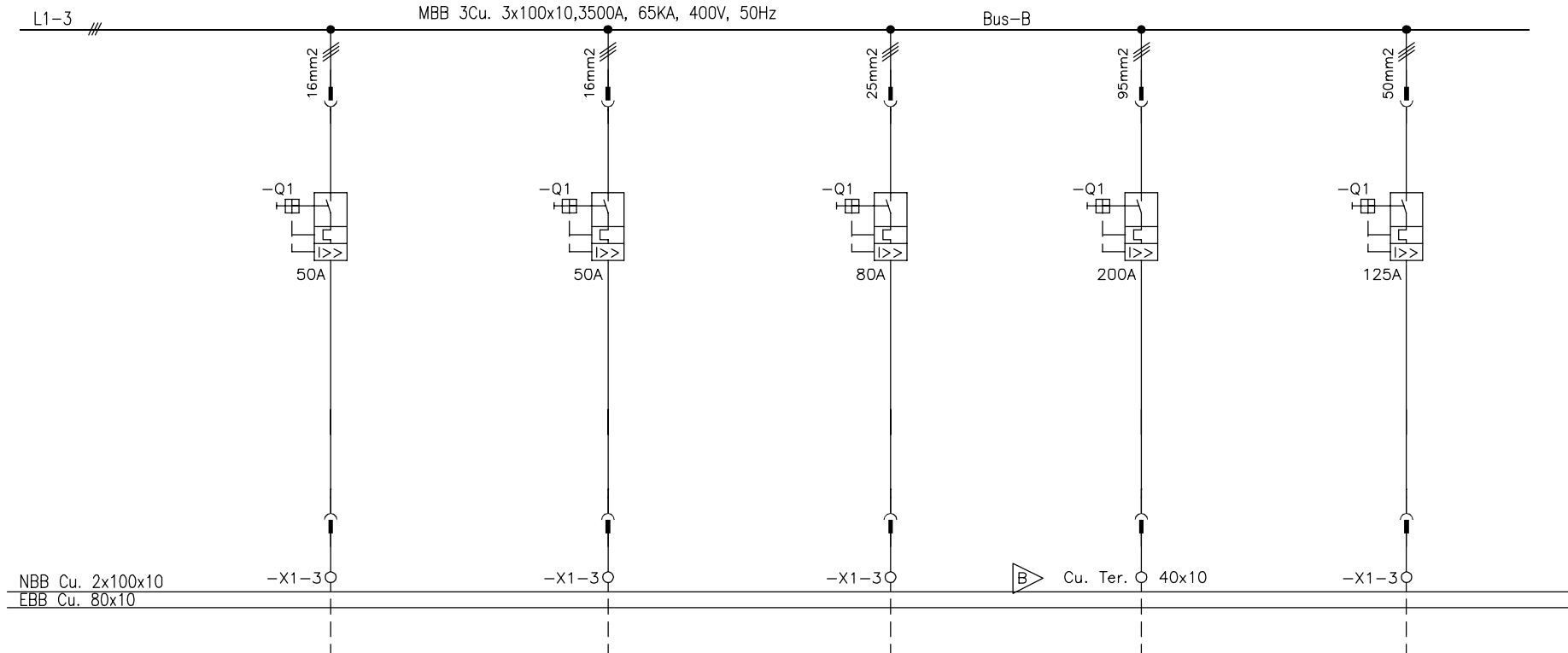
Type	F	F	M1	M2	F
Equipment Tag No.	PM7701B (P-8801B)	PM7702B (PP-8803B)	PM6501B (P-4303B)	PM6502C (P-4302C)	106-UPS-002-1
Description	Fire Water Main Pump-B (Electric Motor)	Fire Water Jockey Pump-B	Recovered Oil Pump-B	Produced Water Transfer Pump-C	Normal Power Supply for 230VAC UPS-1
Power Rating (kW/A)	160/289	37/67	5.5/9.9	4/7.2	32/57.7
Schematic Type	---	---	S51	S52	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan								
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.	SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 10 13 Shs.

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Standard:
Plan:
Group:

FEEDER NO:



Type)	F	F	F	F	F
Equipment Tag No.	106-RCT-001-2	105-PLDB-005	PLDB-102	PLDB-103	PLDB-104
Description	Normal Power Supply for Rectifier-2	PLDB for Guard Room	Admin DB first floor	Maintenance Building DB	Workshop DB
Power Rating (kW/A)	-/50	-/50	30/54.1	70/126.3	50/90.2
Schematic Type	-----	---	---	----	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS Pakistan	103-MCC-05	SB No. 3-4565200	P.O.No.8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project					
D	ASBUILT	-01-17	RA	Checked	Burhan						
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.		
1				2		3		4		5	
									6		
										7	
											8

Sh. 11
13 Shs.

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Standard:
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Group:

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FEEDER NO:

L1-3

NBB Cu. 2x100x10
EBB Cu. 80x10

Type	F	F	F	F	F
Equipment Tag No.	PLDB-107	PLDB-108	103-PLDB-002	HVAC DB	PLDB-1 Generator
Description	Firestation DB	Security Room DB	PLDB for MCC Room	HVAC DB for admin area	Gen Area Swg.-1
Power Rating (kW/A)	20/36.1	8/14.4	20/36.1	80/144.3	147/265.2
Schematic Type	---	----	---	---	---

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58

MBB 3Cu. 3x100x10,3500A, 65KA, 400V, 50Hz

Bus-B

16mm²6mm²50mm²95mm²-Q1
50A-Q1
32A-Q1
150A-Q1
200A-Q1
400A

-X1-3

-X1-3

-X1-3

Cu. Ter. 40x10

Cu. Ter. 40x10

A

B

B

SIEMENS
Pakistan

103-MCC-05

SB No. 3-4565200

P.O.No.8-3211633

Single Line Diag.

SBE No. A6585

(3)G76003-A6585-S192-D

Sh. 12
13 Shs.Descon Engineering Ltd.
OGDCL KDP-TAY Project

Item: 05

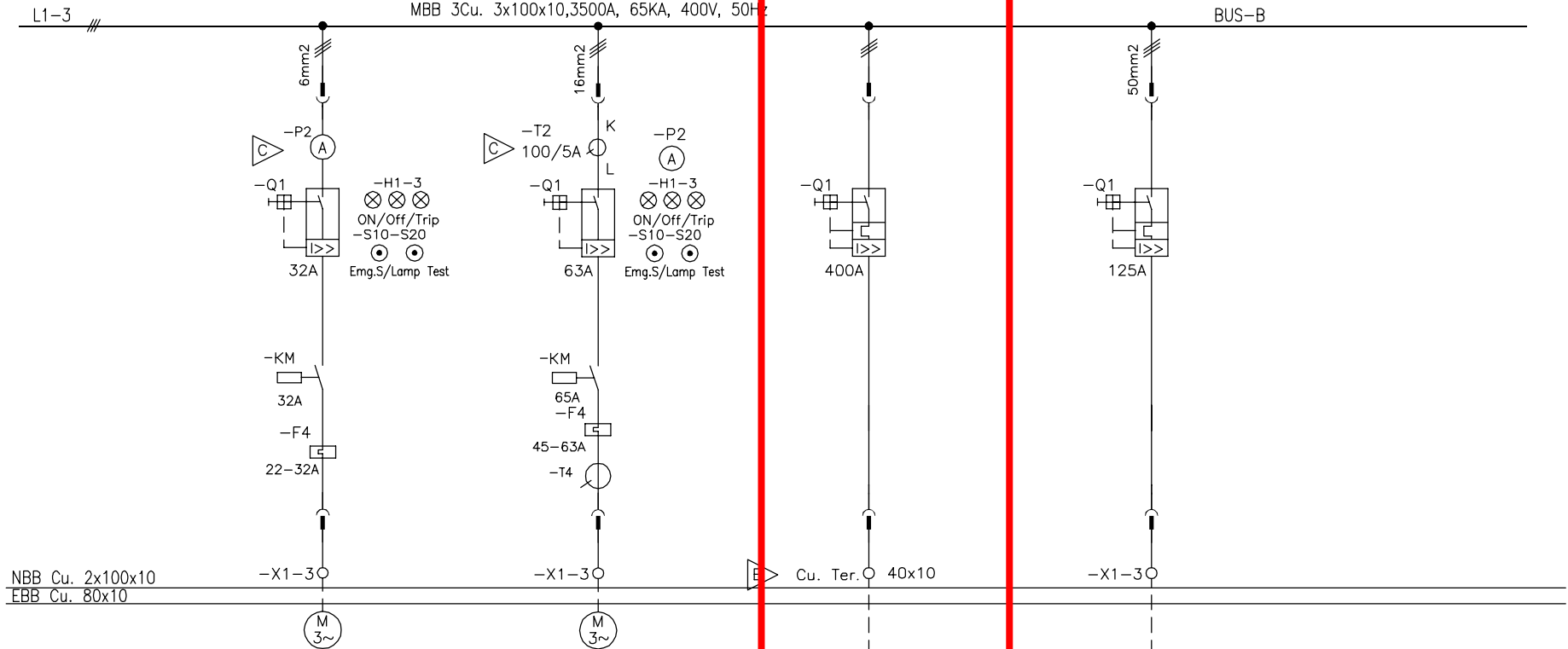
Quantity: 01

Switchboard Engg.

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Standard:
Plan:
Group:

FEEDER NO:



Type	M1	M2	F	F
Equipment Tag No.	---	---	---	---
Description	Spare	Spare	Spare	Spare
Power Rating (kW/A)	15/27.1	30/54.1	-/400	-/125
Schematic Type	S51	S52	---	---

C	Revised	07-16	Sulaiman	Date	-11-15	Descon Engineering Ltd.	SIEMENS	103-MCC-05	SB No.	3-4565200	P.O.No.	8-3211633	
B	Revised	-02-16	Kamran	Worked	Kamran	OGDCL KDP-TAY Project	Pakistan						
D	ASBUILT	-01-17	RA	Checked	Burhan								
Index	Alteration	Date	Name	Approved	Shanil	Item: 05	Quantity: 01	Switchboard Engg.	Single Line Diag.	SBE No.	A6585	(3)G76003-A6585-S192-D	Sh. 13 13 Shs.