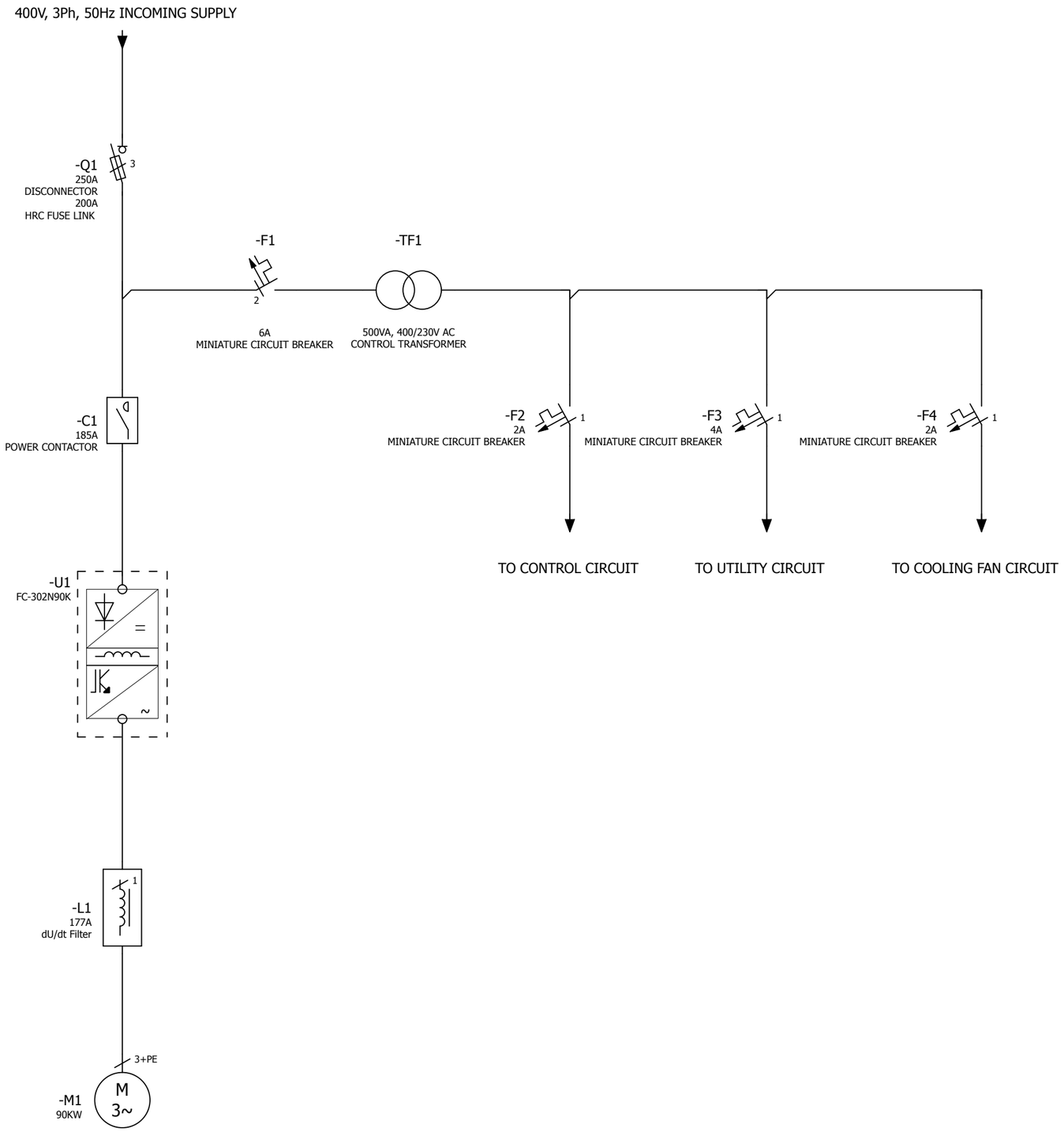

TO CONTROL CIRCUIT TO UTILITY CIRCUIT TO COOLING FAN CIRCUIT

			Date	9/30/2013	Commission: 90KW VFD PANEL	Danfoss GmbH VLT Drives EMA,Carl-Legien Strasse 8 63073 Offenbach, Germany	FILE-NAME: LOGOB300.jpg Size 300px x 116px	Page description: SINGLE LINE DIAGRAM	Project Number: MC_-____-___	= FC302 + N90KW
			Ed.	RAMKUMAR					SAP NO	Manufacturer no
R0	26/08/2013	RAMKUMAR	Appr	FALKO						Page 1
Modification	Date	Name	Contr.	KARTHIK	Project description: Contactor+Fuse+Disconnect+dU/dt-filter					Page 4

2

400V AC, 3Ph, 50Hz INCOMING SUPPLY

/ R → L1 /

/ Y → L2 /

/ B → L3 /

95Sq mm

-Q1
250A, 35KA
DISCONNECT
200A
HRC FUSE LINK
3KL5530-1GB01
3NA7 140-0RC

-F1

-TF1

6A
MINIATURE CIRCUIT BREAKER
5SX42067RC

400/230V AC, 500VA
CONTROL TRANSFORMER

-C1
185A
POWER CONTACTOR
3RT1056-6AP36

95Sq mm

-U1
FC-302N90K
DRIVE MODULE
-L1 -L2 -L3 -PE
U V W PE

-L1
177A
dU/dt Filter

90KW
Motor
M
3~
U1 V1 W1
PE

-F2
2A
MINIATURE CIRCUIT BREAKER
5SX41027RC

-F3
4A
MINIATURE CIRCUIT BREAKER
5SX41047RC

-F4
2A
MINIATURE CIRCUIT BREAKER
5SX41027RC

P N

TO CONTROL CIRCUIT

-DLS1
DOOR LIMIT SWITCH
3SE3 020-0A

-PL1
PANEL LAMP
PL-S 11W/865-XH12M

-PS1
POWER SOCKET
SS 5A

-CF1
COOLING FAN
W2E 200-HK38-01
M
1~
PE

1 3

			Date	9/30/2013	Commission: 90KW VFD PANEL	Danfoss GmbH VLT Drives EMA,Carl-Legien Strasse 8 63073 Offenbach, Germany	FILE-NAME: LOGOB300.jpg Size 300px x 116px	Page description: POWER WIRING DIAGRAM	Project Number: MC_-____-___	= FC302 + N90KW
			Ed.	RAMKUMAR						
R0	26/08/2013	RAMKUMAR	Appr	FALKO	Project description: Contactor+Fuse+Disconnect+dU/dt-filter				SAP NO	Manufacturer no
Modification	Date	Name	Contr.	KARTHIK						

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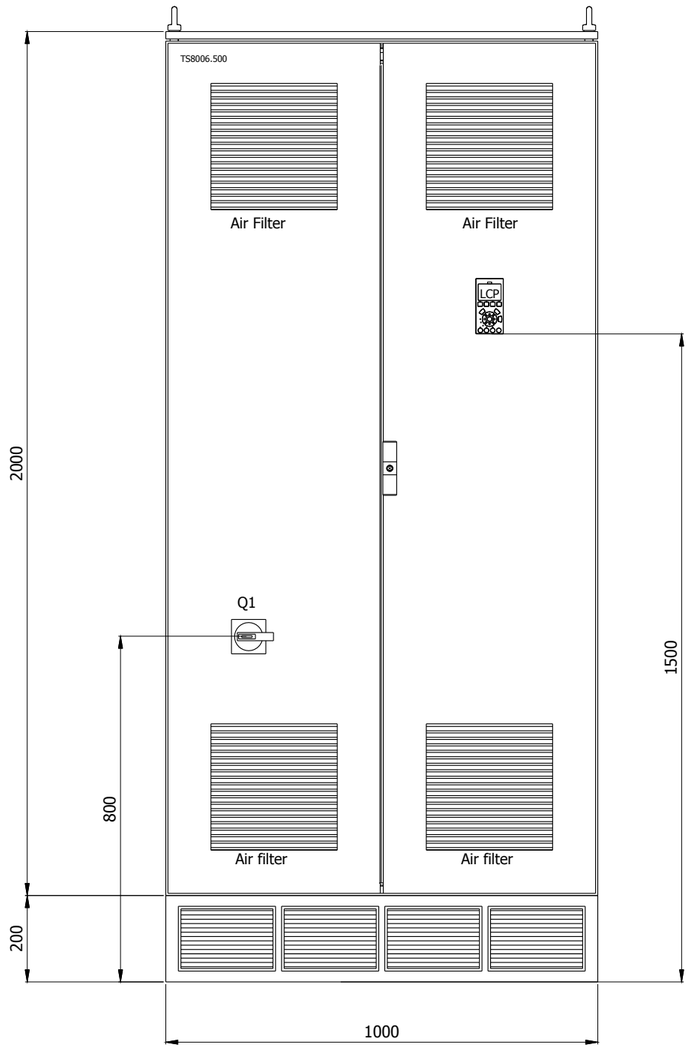
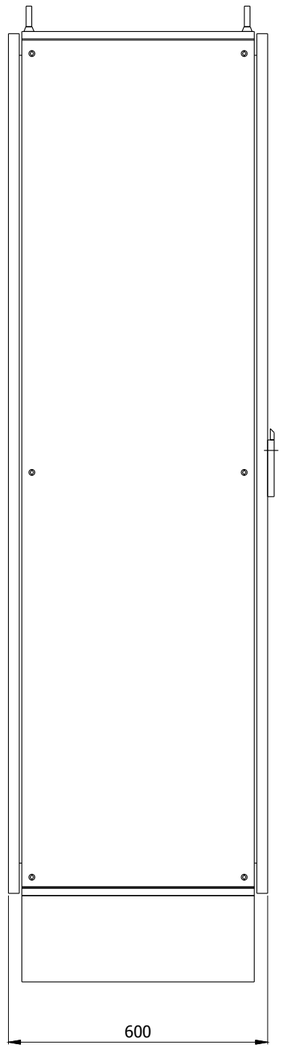
FRONT VIEW



SIDE VIEW

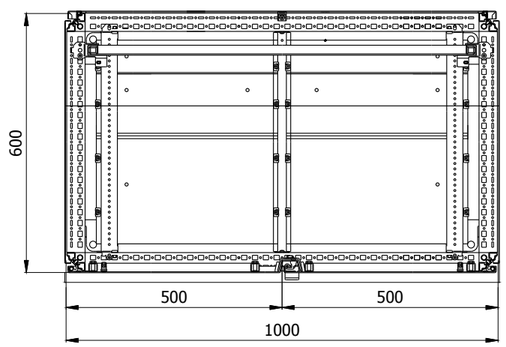


PROTECTION CLASS - IP42
COLOUR-RAL 7035

LEGENDS:

Q1-DISCONNECT
LCP-LOCAL CONTROL PANEL

BOTTOM GLAND PLATE DETAILS



			Date	9/30/2013	Commission: 90KW VFD PANEL	Danfoss GmbH VLT Drives EMA,Carl-Legien Strasse 8 63073 Offenbach, Germany	FILE-NAME: LOGOB300.jpg Size 300px x 116px	Page description: GENERAL ARRANGEMENT	Project Number: MC_-_____-___	= FC302 + N90KW	Page: 3
			Ed.	RAMKUMAR	Project description: Contactor+Fuse+Disconnect+dU/dt-filter				SAP NO: _____	Manufacturer no: _____	Page 4
R0	26/08/2013	RAMKUMAR	Appr	FALKO							
Modification	Date	Name	Contr.	KARTHIK							

Summarized parts list

SL NO	DT	Designation	part number	Technical data	Manufacturer	Quantity
1	-C1	POWER CONTACTOR	3RT1056-6AP36	AC3, 185A, 400V AC, 3Pole, with 2NO+2NC Auxiliary Contacts	SIEMENS	1
2	-CF1	COOLING FAN	W2E 200-HK38-01	925CMH, 230V AC, SINGLE PHASE, 50Hz, 200mm DIA	EBM NADI	1
3	-DLS1	DOOR LIMIT SWITCH	3SE3 020-0A	10A, 500V, 1NO + 1NC	SIEMENS	1
4	-F1	MINIATURE CIRCUIT BREAKER	5SX42067RC	6A,DOUBLE POLE,10kA,C CURVE	SIEMENS	1
5	-F2;-F4	MINIATURE CIRCUIT BREAKER	5SX41027RC	2A, SINGLE POLE,10kA,C CURVE	SIEMENS	2
6	-F3	MINIATURE CIRCUIT BREAKER	5SX41047RC	4A, SINGLE POLE,10kA,C CURVE	SIEMENS	1
7	-L1	dU/dt Filter	130B2844	177A, 440V AC, 50Hz	DANFOSS	1
8	-PL1	PANEL LIGHT WITH HOLDER	PL-S 11W/865-XH12M	11W/230V AC/50Hz	PHILIPS	1
9	-PS1	POWER SOCKET WITH SWITCH	SS 5A	5A	ANCHOR	1
10	-Q1	DISCONNECTOR	3KL5530-1GB01	250A,TRIPLE POLE,35kA	SIEMENS	1
11	-Q1	HRC FUSE LINK	3NA7 140-0RC	200A,500V AC	SIEMENS	1
12	-TF1	CONTROL TRANSFORMER	TRAFO(400V/230V AC)	500 VA, PRIMARY: 400±5%, SECONDARY: 230V AC	KALPA	1
13	-U1	DRIVE MODULE	FC-302N90KT5E20H2XGC7XXSXXXXA XBXCXXXXD0	90KW, 3P, 380-500V, D3H, IP20 MODULE	DANFOSS	1

3

			Date	9/30/2013	Commission: 90KW VFD PANEL	Danfoss GmbH VLT Drives EMA,Carl-Legien Strasse 8 63073 Offenbach, Germany		FILE-NAME: LOGOB300.jpg Size 300px x 116px	Page description: PART LIST	Project Number: MC_-____-___	= FC302 + N90KW
			Ed.	RAMKUMAR							
R0	26/08/2013	RAMKUMAR	Appr	FALKO	Project description: Contactor+Fuse+Disconnect+dU/dt-filter					SAP NO	Manufacturer no
Modification	Date	Name	Contr.	KARTHIK							

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