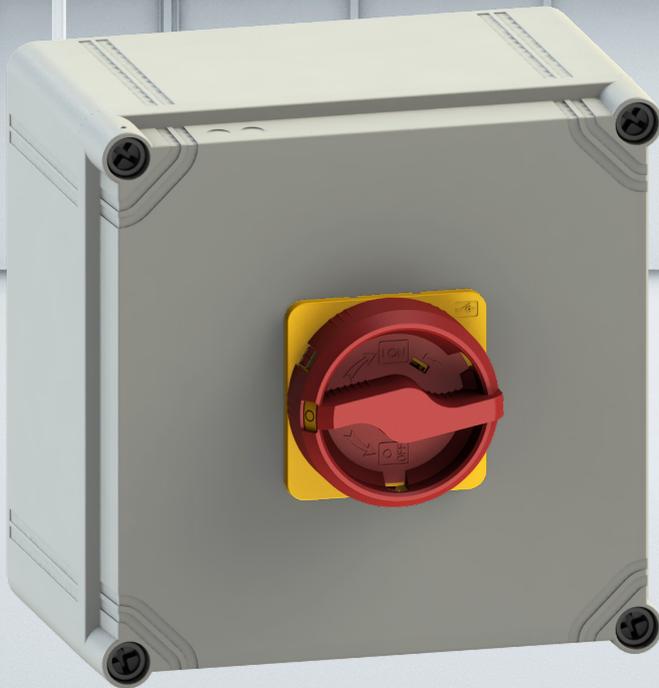


Disconnect Switches ML 1-3

f1 Approved - Suitable For Outdoor Use



UL50E Approved - NEMA Type 4X



Available colours for all housing designs



Switch to Quality!

Komplett-Typen Baureihe ML

Complete types Series ML

Reparatur- und Wartungs-Schalter

als Hauptschalter im Kunststoffgehäuse
in der Ausführung: Griff / Front: schwarz/grau = sw/gr
oder als Not-Aus-Schalter im Kunststoffgehäuse
in der Ausführung: Griff / Front: rot/gelb = rt/ge

Gehäuse: geeignet für Außenanwendung

Repair- / Maintenance switch

as Main Switch in plastic enclosure
handle/front in black/grey bk/gr or
as Emergency-Off Switch in plastic enclosure
handle/front in red/yellow rd/ye

Enclosure: suitable outdoor use



Kunststoffgehäuse mit Vorhängeschlossperre für 3 Vorhängeschlösser

mit Bügeldurchmesser bis 9 mm,
ML-Schalter mit Klemmenabdeckung und
Deckelkupplung

Griff in rot/gelb rt/ge oder schwarz/grau sw/gr

Äußerst robust und schlagfest

Hohe Schutzart

IP 66

Plastic enclosure with lockout handle for 3 padlocks

with shackle diameter up to 9 mm,
ML-switches with terminal cover

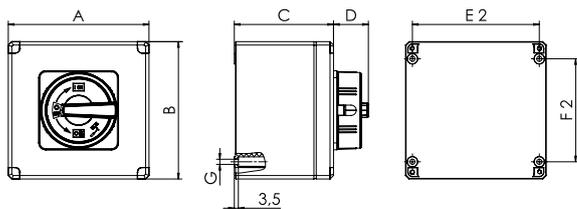
handle/front plate red/yellow rd/ye
or black/grey bk/gr

Extremely robust and impact resistant

High degree of protection

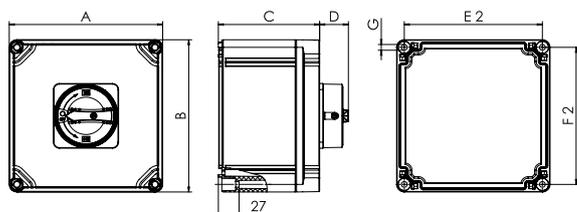
NEMA Type 4X

Abmessungen / Dimensions



Baureihe Series	Abmessungen (mm) Dimensions (mm)								
	A	B	C	D	E2	E3	F2	F3	G
9968	122	120	86	28,0	110		90		4,5(4x)

Abmessungen / Dimensions



Baureihe Series	Abmessungen (mm) Dimensions (mm)								
	A	B	C	D	E2	E3	F2	F3	G
9966-20xx	200	200	131,5	28,0	180		180		7,5(4x)
9966-18xx	200	200	131,5	37,5	180		180		7,5(4x)



Schaltprogramm
Contact arrangement

Dauerstrom I_{th}
Rated
Uninterrupted
current I_{th}
A

Leistung
Rating
AC 3
kW

Leistung
Rating
AC 23A
kW

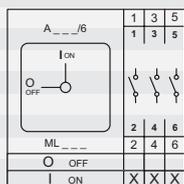
Baureihe
Series

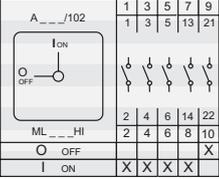
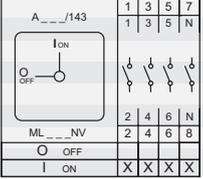
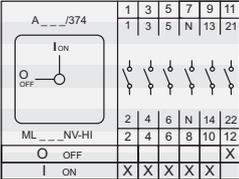
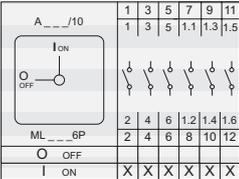
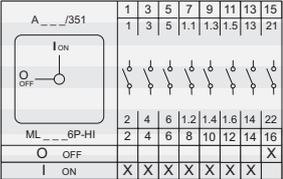
Griff-/
Frontschild
handle/
front plate

Typ
Type

Best.Nr.
Part #

3-polig 3-pole	25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-9968-2020U-PE	MZ 33 200D
	25	7,5	11	ML1	sw/si bk/si	ML1-025-V-9968-2021U-PE	MZ 33 201D
	40	11	15	ML1	rt/ge rd/ye	ML1-040-V-9968-2020U-PE	MZ 35 200D
	40	11	15	ML1	sw/si bk/si	ML1-040-V-9968-2021U-PE	MZ 35 201D
	63	22	30	ML2	rt/ge rd/ye	ML2-063-V-9966-1850-PE	MZ 37 200
	63	22	30	ML2	sw/si bk/si	ML2-063-V-9966-1851-PE	MZ 37 201
	63	30	37	ML2	rt/ge rd/ye	ML2-080-V-9966-1850-PE	MZ 39 200
	63	30	37	ML2	sw/si bk/si	ML2-080-V-9966-1851-PE	MZ 39 201
	100	37	45	ML3	rt/ge rd/ye	ML3-125-V-9966-1850-PE	MZ 41 200
	100	37	45	ML3	sw/si bk/si	ML3-125-V-9966-1851-PE	MZ 41 201



Schaltprogramm Contact arrangement		Dauerstrom Rated Uninterrupted current I_{th}	Leistung Rating AC 3	Leistung Rating AC 23A	Baureihe Series	Griff-/ Frontschild handle/ front plate	Typ Type	Best.Nr. Part #
		A	kW	kW				
3-polig + 1S + 1Ö 3-pole + 1NC + 1NO		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-9968-2020U-HI-PE	MZ 33 202D
		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-9968-2021U-HI-PE	MZ 33 203D
		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-9968-2020U-HI-PE	MZ 35 202D
		40	11	15	ML1	sw/si bk/si	ML1-040-V-9968-2021U-HI-PE	MZ 35 203D
		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-9966-1850-HI-PE	MZ 37 202
		63	22	30	ML2	sw/si bk/si	ML2-063-V-9966-1851-HI-PE	MZ 37 203
		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-9966-1850-HI-PE	MZ 39 202
		63	30	37	ML2	sw/si bk/si	ML2-080-V-9966-1851-HI-PE	MZ 39 203
		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-9966-1850-HI-PE	MZ 41 202
		100	37	45	ML3	sw/si bk/si	ML3-125-V-9966-1851-HI-PE	MZ 41 203
4-polig 4-pole		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-9968-2020U-NV-PE	MZ 33 204D
		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-9968-2021U-NV-PE	MZ 33 205D
		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-9968-2020U-NV-PE	MZ 35 204D
		40	11	15	ML1	sw/si bk/si	ML1-040-V-9968-2021U-NV-PE	MZ 35 205D
		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-9966-1850-NV-PE	MZ 37 204
		63	22	30	ML2	sw/si bk/si	ML2-063-V-9966-1851-NV-PE	MZ 37 205
		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-9966-1850-NV-PE	MZ 39 204
		63	30	37	ML2	sw/si bk/si	ML2-080-V-9966-1851-NV-PE	MZ 39 205
		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-9966-1850-NV-PE	MZ 41 204
		100	37	45	ML3	sw/si bk/si	ML3-125-V-9966-1851-NV-PE	MZ 41 205
4-polig+ 1S + 1Ö 4-pole + 1NC + 1NO		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-9968-2020U-NV-HI-PE	MZ 33 206D
		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-9968-2021U-NV-HI-PE	MZ 33 207D
		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-9968-2020U-NV-HI-PE	MZ 35 206D
		40	11	15	ML1	sw/si bk/si	ML1-040-V-9968-2021U-NV-HI-PE	MZ 35 207D
		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-9966-1850-NV-HI-PE	MZ 37 206
		63	22	30	ML2	sw/si bk/si	ML2-063-V-9966-1851-NV-HI-PE	MZ 37 207
		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-9966-1850-NV-HI-PE	MZ 39 206
		63	30	37	ML2	sw/si bk/si	ML2-080-V-9966-1851-NV-HI-PE	MZ 39 207
		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-9966-1850-NV-HI-PE	MZ 41 206
		100	37	45	ML3	sw/si bk/si	ML3-125-V-9966-1851-NV-HI-PE	MZ 41 207
6-polig 6-pole		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-9966-2020U-6P-PE	MZ 33 208D
		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-9966-2021U-6P-PE	MZ 33 209D
		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-9966-2020U-6P-PE	MZ 35 208D
		40	11	15	ML1	sw/si bk/si	ML1-040-V-9966-2021U-6P-PE	MZ 35 209D
		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-9966-1850-6P-PE	MZ 37 208
		63	22	30	ML2	sw/si bk/si	ML2-063-V-9966-1851-6P-PE	MZ 37 209
		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-9966-1850-6P-PE	MZ 39 208
		63	30	37	ML2	sw/si bk/si	ML2-080-V-9966-1851-6P-PE	MZ 39 209
		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-9966-1850-6P-PE	MZ 41 208
		100	37	45	ML3	sw/si bk/si	ML3-125-V-9966-1851-6P-PE	MZ 41 209
6-polig+ 1S + 1Ö 6-pole + 1NC + 1NO		25	7,5	11	ML1	rt/ge rd/ye	ML1-025-V-9966-2020U-6P-HI-PE	MZ 33 210D
		25	7,5	11	ML1	sw/si bk/si	ML1-025-V-9966-2021U-6P-HI-PE	MZ 33 211D
		40	11	15	ML1	rt/ge rd/ye	ML1-040-V-9966-2020U-6P-HI-PE	MZ 35 210D
		40	11	15	ML1	sw/si bk/si	ML1-040-V-9966-2021U-6P-HI-PE	MZ 35 211D
		63	22	30	ML2	rt/ge rd/ye	ML2-063-V-9966-1850-6P-HI-PE	MZ 37 210
		63	22	30	ML2	sw/si bk/si	ML2-063-V-9966-1851-6P-HI-PE	MZ 37 211
		63	30	37	ML2	rt/ge rd/ye	ML2-080-V-9966-1850-6P-HI-PE	MZ 39 210
		63	30	37	ML2	sw/si bk/si	ML2-080-V-9966-1851-6P-HI-PE	MZ 39 211
		100	37	45	ML3	rt/ge rd/ye	ML3-125-V-9966-1850-6P-HI-PE	MZ 41 210
		100	37	45	ML3	sw/si bk/si	ML3-125-V-9966-1851-6P-HI-PE	MZ 41 211

Auxiliary contact (HI) 1NO + 1NC

Snap on right or left side of series ML For ML1-3 also usable if a SK- or NV contact is installed. Main contacts and NO contact simultaneous.

auxiliary switch for series ML1 to ML3			Rated operational current I_o	120 V	A	6
auxiliary switch acc. UL508				600 V	A	1,2
Rated uninterrupted current I_u open = I_{th}	A	12	Cable cross section sol		AWG-No.	16
I_{th} encapsulated	A	12	Cable cross section str		AWG-No.	14
Rated insulation voltage U_i (III/3)	V	600	Terminal screws (PoZidrive)		M3	
			Torque terminal screws		Nm	0,6

Specifications

			ML1-025	ML1-040	ML2-063	ML2-080	ML3-125
Rated operating current I_e	AC-21A	A	25	40	63	80	125
Rated voltage U_e		V	690	690	690	690	690
Rated uninterrupted current (open) $I_u=I_{th}$		A	25	40	63	80	125
Conventional enclosed thermal current I_{the}		A	25	40	63	63	100
Rated insulation voltage U_i		V			690	690	800
Insulation group C under VDE 0110			690	690			
Making/breaking capacity							
Service category	AC-3						
Motor switch	230 V 3~	kW	5,5	7,5	15	18,5	22
for optional switching	400 V 3~	kW	7,5	11	22	30	37
	690 V 3~	kW	7,5	11	22	30	45
Service category	AC-23A/B						
Motor switch	230 V 3~	kW	7,5/-	11/-	-/18,5	-/22	-/25
Main switch	400 V 3~	kW	11/-	15/-	-/30	-/37	-/45
Maintenance switch	690 V 3~	kW	11/-	15/-	-/30	-/37	-/45
Service category	AC-22A/B						
Motor switch	230 V 3~	A	25/-	40/-	63/-	-/-	-/-
	400 V 3~	A	25/-	40/-	63/-	-/68	-/125
	690 V 3~	A	25/-	40/-	63/-	-/-	-/125
Rated conditional short-circuit current		kA	10	10	10	10	10
Rated short-time with stand current I_{cw} 1 sec		kA					
Max. Back up fuse Service class gG		A	50	50	63	80	125
Disconnect characteristic up to 690 V~		V	690	690	690	690	690
Terminal cross section							
single or multi-core	min./max.	mm ²	2,5 - 16	2,5 - 16	2,5 - 35	2,5 - 35	6 - 70
finely stranded with sleeve	min./max.	mm ²	1,5 - 10	1,5 - 10	1,5 - 25	1,5 - 25	6 - 50
Terminal screws			M4	M4	M5	M5	M6
Mechanical life							
switching cycles			30.000	30.000	30.000	30.000	30.000
Ambient temperature open		C°	+75/-25	+75/-25	+50/-25	+50/-25	+50/-25
max./min.	encapsulated	C°	+40/-25	+40/-25	+40/-25	+40/-25	+40/-25
							
General purpose 3-phase rated operational current		A	25	40	63	80	125
		V	600	600	600	600	600
Motor 3-phase AC-3							
	220/240 V 3~	hp	7,5	10	15	20	25
	440/480 V 3~	hp	10	20	30	40	50
	550/600 V 3~	hp	10	20	30	40	50
Motor 1-phase AC-3							
(2 pole)	110/120 V 3~	hp	1	1,5	3	4	6
	220/240 V 3~	hp	2	3	7,5	10	15
Cable cross section		AWG-No	14 - 8	14 - 8	14 - 2	14 - 2	8 - 10

Member of PCE Group

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