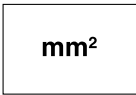
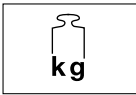

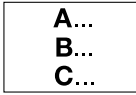





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General



Device Type	Copper conductors and cables		Copper busbars, flat strip
	1 conductor Cross-section mm ²	2 conductors Cross-section mm ²	
	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	Quantity × width × thickness mm
Control circuit devices			
RMQ16	○		—
RMQ-Titan	○ ●	○ ●	—
Position switches			
AT0	○ ●	■	
ATR	○ ●	■	
AT	○ ●	○ ●	
AT4	○ ●	■	
Pressure switches			
MCS	○ ●		
MCSN	○ ●	○ ●	
Float switches			
SW	○ ●	○ ●	
Contactors relays			
DILER	■	○ ●	
DILR	■	○ ●	
Control relays			
EASY	■	○ ●	
Electronic safety relays			
ESR3-N0-31	○ ●	■	
ESR4-...	■	■	
Electronic measuring relays			
EMR4-...	○	■	
Electronic timing relays			
DILET	■	○ ●	
ETR4	■	■ ¹⁾	
Contactors			
DILEEM, DILEM	■	○ ●	
DIL00 M, DIL00AM	■	■	
DIL00BM	■	■	
DIL0M, DIL0AM	■	■	
DIL1M, DIL1AM	■	○ ●	≡ 3×9×0.8 ≡ 2×(3×9×0.8) ≡ 6×9×0.8
DIL2M, DIL2AM	■	○ ●	≡ 3×9×0.8 ≡ 2×(3×9×0.8) ≡ 6×9×0.8
Auxiliary conductors			
DIL00M-DIL2AM	■	○ ●	

Notes

- Solid (s)
- Stranded (st)
- Flexible (f)
- Solid or stranded or flexible
- min. ●—●
- max. ○—○
- Busbar
- ≡ Flat strip
- Flexible with ferrule up to 16 mm² to DIN 46228

¹⁾ Use only equal cross-sections



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Device Type	Copper conductors and cables		Copper busbars, flat strip
	1 conductor	2 conductors	
	Cross-section mm ²	Cross-section mm ²	
	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	Quantity × width × thickness mm
Contactors			
DIL3M80	○ ●	○ ●	≡ 2 × (6 × 9 × 0.8) ¹⁾
DIL3AM85	○ ●	○ ●	≡ 2 × (6 × 9 × 0.8) ¹⁾
DIL4M115	○ ○	○ ○	≡ 2 × (6 × 16 × 0.8) ¹⁾
DIL4AM145	○ ○	○ ○	≡ 2 × (6 × 16 × 0.8) ¹⁾
DILM185	○ ○	○ ○	≡ 2 × (6 × 16 × 0.8) ¹⁾
DILM225	○ ○	○ ○	≡ 2 × (6 × 16 × 0.8) ¹⁾
DILM250	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾
DILM300	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
DILM400	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
DILM500	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
DILM580	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
DILM650	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
DILM750	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
DILM850	○ ○	○ ○	≡ 2 × (10 × 16 × 0.8) ¹⁾ ≡ 2 × (10 × 21 × 1) ¹⁾
Auxiliary conductors	■	■	
Contactors for capacitor switching			
DIL00MK	■	■	
DIL0MK	■	■	
DIL1MK	○ ●	○ ●	
DIL2MK, DIL2MKV	○ ●	○ ●	
DIL3MK	○ ●	○ ●	
Semiconductor contactors			
DILSM, DILSH			
Main circuit	○ ○	○ ○	
Control circuit	○ ○	○ ○	
DS4			
Main circuit	■	■	
Control circuit	■	■	
Overload relays			
ZE	○ ●	○ ●	—
Z00	■	■	—
Z1	■	○ ●	—
Z5-/-...K3	■	○ ●	≡ 6 × 9 × 0.8
Z5-/-...K4	■	○ ●	≡ 6 × 16 × 0.8
Z5-/FF6	○ ○	○ ○	≡ 6 × 16 × 0.8
ZW7			
ZEV	■	■ ²⁾	

Notes

- Solid (s)
- Stranded (st)
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- Solid or stranded or flexible
- min. max.
- min. max.
- min. max.
- Busbar
- ≡ Flat strip
- Flexible with ferrule up to 16 mm² to DIN 46228

¹⁾ Use box terminals
²⁾ For connection of 2 conductors, use only the following combinations:
 0.5 and 0.75 mm²/0.75 and 1 mm²/1 and 1.5 mm²

General



Device Type	Copper conductors and cables		Copper busbars, flat strip
	1 conductor Cross-section mm ²	2 conductors Cross-section mm ²	
	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	Quantity × width × thickness mm
Thermistor relays for machine protection			
EMT6	■	■	-
Rotary switches			
TM	●	●	-
T0	○	○	-
T3	○	○	-
T5B, T5	○	○	-
T6	○	○	-
T8	○	○	-
			■ 25×3 ■ 2×(25×3)
Switch-disconnectors			
P1	○	○	-
N-P1	○	○	-
P3	○	○	-
N-P3	○	○	-
Motor-protective circuit-breakers			
PKZM0, PKZM4	■	■	-
SE00-...-PKZ0	■	■	-
S00-...-PKZ0	■	■	-
NHI...-PKZ0	■	■	-
AGM2-01-PKZ0	■	■	-
A-PKZ0, U-PKZ0	■	■	-
PKZ2	○	○	-
NHI...-PKZ2	■	■	-
AGM2-11-PKZ2	■	■	-
A-PKZ2, U-PKZ2	■	■	-
RE-PKZ2, ZS-PKZ2	■	■	-
Circuit-breakers, switch-disconnectors			
NZM7-160	■	■	≡ 2×(6×16×0.8)
NZM7-250	■	■	≡ 2×(10×16×0.8)
EK...	■	■	■ 24×6
VHI-NZM7	■	■	-
NAGM-NZM7	■	■	-
U...-NZM7	■	■	-
A...-NZM7	■	■	-
R-NZM7	■	■	-
NZM10-400 with			
K2×120	○	○	-
K2×240	○	○	-
K300	○	○	-
K22×11	○	○	≡ 2×(11×21×1)

Notes

- Solid (s)
- Stranded (st)
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- Solid or stranded or flexible
- min. max.
-
- Busbar
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- Flexible with ferrule up to 16 mm² to DIN 46228

1) On T6-160/... max. 90 mm²
2) On NHI-E max. 1.5 mm²



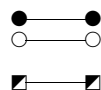
Moeller HPL0211-2004/2005

Device Type	Copper conductors and cables		Copper busbars, flat strip
	1 conductor Cross-section mm ²	2 conductors Cross-section mm ²	
	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	0,5 0,75 1 1,5 2,5 4 6 10 16 25 35 50 70 95 120 150 185 240 300	Quantity × width × thickness mm
Circuit-breakers, switch-disconnectors			
NZM10-630 with K2×120 K2×240 K300 K22×11		○	≡ 2×(11×21×1) ■ 2×(40×5)
NHI-NZM10	■		
VHI-NZM10	■		
RHI-NZM10	■		
U...-NZM10	■		
A-NZM10	■		
R-NZM10	■		
NZM14-800			■ 50×10
NZM14-1250			■ 2×(40×10)
NZM14-1600			■ 2×(50×10)
NHI-NZM14	■		
(N)RHI-NZM14	■		
U...-NZM14	■		
A-NZM14	■		
R-NZM14	■		
Circuit-breakers, switch-disconnectors			
IZM(IN)1...630			■ 60×10
IZM(IN)1...800			■ 60×10
IZM(IN)1...1000			■ 60×10
IZM(IN)1...1250			■ 2×40×10
IZM(IN)1...1600			■ 2×60×10
IZM(IN)2...800			■ 50×10
IZM(IN)2...1000			■ 60×10
IZM(IN)2...1250			■ 2×40×10
IZM(IN)2...1600			■ 2×50×10
IZM(IN)2...2000			■ 3×50×10
IZM(IN)2...2500			■ 2×100×10
IZM(IN)2...3200			■ 3×100×10
IZM(IN)3...4000			■ 3×120×10
IZM(IN)3...5000			■ 4×120×10
IZM(IN)3...6300			■ 6×120×10

Notes

- Solid (s)
- Stranded (st)
- Flexible (f)
- Solid or stranded or flexible

min. max.



■ Busbar
≡ Flat strip

Flexible with ferrule up to 16 mm² to DIN 46228

Type	Weight kg	Type	Weight kg	Type	Weight kg	Type	Weight kg
RMQ-Titan control circuit devices		AT4.../H	0.270	DILR44(53)D	0.37	DILM250	6.5
M22-DD-...	0.015	AT4.../F	0.210	DILR22/TPE(D)11	0.40	DILM300	8.0
M22-PV	0.053	AT4.../F2	0.220	DILR22		DILM400	8.0
M22-PVS	0.060	ATB11...	0.030	(31, 40, 22D)-G	0.50	DILM500	8.0
M22-D-...	0.016	I-AT	0.100	DILR40-G/04		DILM580	15.0
M22-DH-...	0.017	AT4.../ZB	0.220	(13, 22, 40)	0.55	DILM650	15.0
M22-DP-...	0.019	ATO...-ZB	0.900	DILR44(53)D-G	0.55	DILM750	15.0
M22-DPR-...	0.020	ATO...-ZBZ/...	0.400	DILR22-G/TPE(D)11	0.58	DILM820	15.0
M22-W	0.014	ATR-.../TKG(TS)	0.08 (0.09)	DILR22(31, 40)-G/V	0.60		
M22-M3	0.030			DILA-XHI(C)...	0.05 (0.05)	Open star-delta combinations	
M22-WS	0.050	Inductive proximity switches		02(11,20)DIL	0.03	SDAINLEM	0,65
M22-L-...	0.009	LSI-R12P-...	0.10	04(13, 22, 40)DIL	0.05	SDAINL00AM	1.5
M22-DL-...	0.010	LSI-R18P-...	0.11	TPE(D)11DIL	0.08	SDAINL0M(AM)	1.7 (1.8)
M22-WLK-...	0.013	LSI-R30P-...	0.14	VDIL	0.10	SDAINL1M(AM)	2.4
M22-K10(01)	0.010	LSI-Q40P-...-CD(CA)	0.06 (0.02)	Timing relays		SDAINL2M(AM)	3.0 (3.6)
M22-AK11	0.027	LSI-Q40P-...-PD	0.21	DILET11-...	0.080	SDAINL3M125	6.5
M22-LED-...	0.011	LSI-R85-...-LD(PD)	0.26 (0.26)	DILET70-A	0.10	SDAINL3AM150	6.5
M22-E1(2)	0.060 (0.075)	LSI-R12M-...-LD(PD)	0.11 (0.03)	ETR2-...	0.050	SDAINL4M180	8.5
M22-E3(4)	0.096 (0.160)	LSI-R18M-...-LD(PD)	0.13 (0.05)	ETRA-...	0.10	SDAINL4AM250	8.5
M22-E5(6)	0.160 (0.210)	LSI-R30M-...-LD(PD)	0.21 (0.11)	Safety relays		SDAINLM12	0.91
M22-I1(2)	0.159 (0.240)	Capacitive proximity switches		ESR4-NE-42	0.20	SDAINLM16	0.91
M22-I3(4)	0.268 (0.337)	LSC-R12(R18)M-...LD	0.08 (0.14)	ESR4-NM-21	0.20	SDAINLM22	0.91
M22-I6(12)	0.370 (1.250)	LSC-R30(Q20)M-...LD	0.25 (0.06)	ESR4-NO-21	0.20	SDAINLM30	1.51
Foot and palm switches		LSC-Q40P-F20-CD	0.26	ESR4-NO-30-115VAC	0.30	SDAINLM45	1.51
FAK.../KC/I	0.29	Optical proximity switches		ESR4-NO-30-230VAC	0.30	SDAINLM55	1.51
FAK/V/KC/I+L	0.31	LSO-R18P-S300-LD	0.13	ESR4-NO-30-24V...	0.30	Open reversing contactors	
RMQ16 control circuit devices		LSO-R18P-S300-PD	0.05	ESR4-NO-31	0.20	DIULM7/21	0.54
Q18(25)D...	0.01	LSO-R18S-S300-LD	0.20	ESR4-NO-31-115VAC	0.30	DIULM9/21	0.54
Q18(25)L...	0.01	LSO-R18S-S300-PD	0.10	ESR4-NO-31-230VAC	0.30	DIULM12/21	0.54
Q18(25)W...	0.01	LSO-R30P-S400-LD	0.18	ESR4-NO-NT30-30	0.20	DIULM17/21	0.94
Q18(25)S...	0.02	LSO-R30P-S400-PD	0.09	ESR4-NO-NV3-30	0.20	DIULM25/21	0.94
E8	0.08	LSO-R18P-B2000-LD	0.14	ESR4-NO-NV30-30	0.20	DIULM32/21	0.94
I8	0.3	LSO-R18P-B2000-PD	0.05	ESR4-NO-NZ-21	0.20	DIULM40/11	1.9
I(E)LP...	0.13 (0.25)	LSO-R18S-B2000-LD	0.14	ESR4-NO-VE3-42	0.20	DIULM50/11	1.9
E10(E01)	0.003	LSO-R18S-B2000-PD	0.05	Measuring and monitoring relays		DIULM65/11	1.9
Signal towers		LSO-R30P-B6000LD	0.17	EMR4-A400-1	0.15	DIULEEM(EM)	0.42
SL-100-L-RGY/...	0.49	LSO-R30P-B6000-PD	0.08	EMR4-F500-2	0.15	DIUL00AM	0.8
SL-100-L-RG/...	0.38	Pressure switches		EMR4-I1-2-A	0.21	DIUL0M(AM)	1.0
SL-100-L-W(R-G)/...	0.27	MCS..., (MCSN)	0.40 (0.45)	EMR4-I15-2-A	0.21	DIUL1AM	1.6
SL-100-FL...(W(R)	0.29	Control relays		EMR4-I15-2-B	0.30	DIUL2AM	2.3
SL-100-AP...	0.265	Base units		EMR4-N100-1-B	0.15	DIUL3M80	5.5
Position switches		EASY512-...	0.20	EMR4-N500-2-A	0.21	DIUL3AM85	5.5
LSE-11(02)	0.05 (0.06)	EASY719-...	0.36	EMR4-N500-2-B	0.30	DIUL4M115	6.5
LSE-AI(AU)	0.05 (0.06)	EASY819-...	0.41	EMR4-PH22	0.01	DIUL4AM145	6.5
LS-11(-SW)	0.05 (0.05)	EASY820-...	0.41	EMR4-PH45	0.01	Overload relays	
LS-11D(-SW)	0.05 (0.05)	EASY821-...	0.37	EMR4-RAC-1-A	0.23	ZB12-...	0.15
LS-20(-SW)	0.05 (0.05)	EASY822-...	0.37	EMR4-RDC-1-A	0.30	ZB23-...	0.15
LS-02(-SW)	0.05 (0.05)	Expansion units		EMR4-W500-2-C	0.30	ZB65-...	0.25
LS-11S(-SW)	0.05 (0.05)	EASY200-EASY	0.07	EMR4-W500-2-D	0.30	ZE-...	0.09
LS-11S/L(P)	0.05 (0.06)	EASY202-RE	0.07	EMR4-W580-2-D	0.30	Z00-...	0.15
LS-11S/S	0.07	EASY204-DP	0.11	Contactors		Z1-...	0.28
LSM-11(D)	0.14 (0.14)	EASY205-ASI	0.07	DILMP20(VDC)	0.22 (0.29)	Z1-75	0.40
LSM-20(02)	0.14 (0.14)	EASY221-CO	0.15	DILM7-...(VDC)	0.22 (0.29)	Z5-.../SK3	1.20
LSM-11S	0.14	EASY222-DN	0.15	DILM9-...(VDC)	0.22 (0.29)	Z5-.../SK4	1.30
LSM-11/P(S/P)	0.18 (0.19)	EASY618-AC(DC)-RE	0.26 (0.22)	DILM12-...(VDC)	0.22 (0.29)	Z5-.../FF250	1.8
LSM-11S/S	0.19	EASY620-DC-TE	0.21	DILM17-...(VDC)	0.42 (0.53)	Z5-.../KK3	1.3
LS-11/L(D/L)	0.06 (0.06)	MFD-Titan		DILM25-...(VDC)	0.42 (0.53)	Z5-.../KK4	1.55
LS-02/L(11S/L)	0.06 (0.06)	MFD-80(-B)	0.14 (0.13)	DILM32-...(VDC)	0.42 (0.53)	ZW7	0.95
LS-11/RL(S/RL)	0.07 (0.07)	MFD-AC-CP8-ME(NT)	0.16 (0.17)	DILM40(VDC)	0.9 (1.1)	ZEV	0.20
LS-11/RLA(S/RLA)	0.09 (0.10)	MFD-CP8-ME(NT)	0.16 (0.17)	DILM40(VDC)	0.9 (1.1)	EZ00	0.07
LS-11S/RR	0.80	MFD-AC-R16	0.16	DILM50(VDC)	0.9 (1.1)	EZ1	0.15
LSM-11/L(D/L)	0.16 (0.16)	MFD-R16(T16)	0.17 (0.14)	DILM65(VDC)	0.9 (1.1)	Current sensors	
LMS-02/L(11S/L)	0.16 (0.16)	MFD-RA17(TA17)	0.17 (0.14)	DILEEM(-G)	0.17 (0.2)	ZEV-XSW-25	0.21
LMS-11/RL(S/RL)	0.20 (0.20)	Contactor relays		DILEM(-G)	0.17 (0.2)	ZEV-XSW-65	0.37
LMS-11/RLA(S/RLA)	0.21 (0.21)	DILA-...(VDC)	0.22 (0.29)	DIL00M(AM)	0.32	ZEV-XSW-145	0.45
LMS-11S/RR	0.20	DILAC-...(VDC)	0.22 (0.29)	DIL00BM	0.32	ZEV-XSW-820	0.30
AT4.../S(RS)	0.120	DILER(-G)	0.17 (0.2)	DIL0M(AM)	0.42	Thermistor relays for machine protection	
AT4.../AR	0.170	DILR22(31, 40, 22D)	0.32	DIL1M(AM)	0.71	EMT6	0.13
AT4.../R316	0.230	DILR40/04		DIL2M(AM)	0.95		
AT4.../V	0.270	(13, 22, 40)	0.37	DIL3M80	2.0		

Notes

This table contains the weight of only the individual components and certain equipment combinations. To calculate weights of other combinations, simply add or subtract the individual weights. Where applicable, add a small percentage for wiring and accessories (e.g. BT assembly parts and screws).



Type	Weight kg	Type	Weight kg	Type	Weight kg	Type	Weight kg
Rotary switches		I2M...1(-4)-630	43.0 (50.0)	Plug-in units		Timers	
Surface mounting		I2M...1(-4)-800	43.0 (50.0)	+NZM2(-4)-XSV	4.7 (5.9)	SU-GS/...	0.16
T0-1(4)-.../I1	0.22 (0.30)	I2M...1(-4)-1000	43.0 (50.0)	Withdrawable units		SU-GQ-TA	0.11
T0-3(4)-.../I2	0.5 (0.67)	ZM...1(-4)-1250	43.0 (50.0)	+NZM3(-4)-XAV	21.0 (27.0)	SU-GQ/1W-...	0.17
T5B-1(4)-.../I4	0.72 (0.8)	I2M...1(-4)-1600	43.0 (50.0)	+NZM4(-4)-XAV	52.0 (65.0)	SU-GQ/2W-TW	0.22
T5-1(4)-.../I5	1.2 (1.3)	I2M...2(-4)-800	56.0 (67.0)	Plug-in adapters		Z-SDM/...	0.15
Flush mounting		I2M...2(-4)-1000	56.0 (67.0)	AS3-NZM7	4.8	Buzzers	
TM-1-.../E(EZ/S)	0.03 (0.05)	I2M...2(-4)-1250	56.0 (67.0)	ASW3-NZM7	2.7	Z-SUM...	0.07
each additional contact unit:	0.015	I2M...2(-4)-1600	56.0 (67.0)	Withdrawable units		Bells	
T0-1-.../E	0.12	I2M...2(-4)-2000	56.0 (67.0)	AF3-NZM10	24.0	Z-GLO...	0.07
each additional contact unit:	0.03	I2M...2(-4)-2500	59.0 (71.0)	AF4-NZM104	27.0	Power meters	
T3-1-.../E	0.19	I2M...2(-4)-3200	64.0 (77.0)	Residual-current relays		Z-KW400/3...	0.50
each additional contact unit:	0.04	I2M...3(-4)-4000	82.0 (99.0)	NFI9	1.0	Hours-run counters	
T5(B)-1-.../E	0.38	I2M...3(-4)-5000	82.0 (99.0)	Miniature circuit-breakers		BSZ...	0.09
each additional contact unit:	0.1	I2M...3(-4)-6300	90.0 (108.0)	FAZ...1-pole (2-pole)	0.13 (0.26)	Pulse counters	
T6-2-.../E	0.8	I2M...1(-4)-630+AV	70.0 (84.0)	FAZ...3-pole (4-pole)	0.39 (0.52)	Z-IMP/230	0.08
T6-3-.../E	1.0	I2M...1(-4)-800+AV	70.0 (84.0)	AZ...1-pole (2-pole)	0.20 (0.40)	Plug sockets	
T8-3-.../E	2.8	I2M...1(-4)-1000+AV	70.0 (84.0)	AZ...3-pole (4-pole)	0.60 (0.80)	Z-SD230	0.10
Rear mounting		I2M...1(-4)-1250+AV	70.0 (84.0)	Residual-current circuit-breakers		Surge protection	
T0.../Z	0.14	I2M...1(-4)-1600+AV	70.0 (84.0)	FI-16/2/...	0.22	Lightning current arresters	0.17
each additional contact unit:	0.03	I2M...2(-4)-800+AV	91.0 (109.0)	FI-25/2/...	0.22	SPI-35/440	0.18
T3-1-.../Z	0.26	I2M...2(-4)-1000+AV	91.0 (109.0)	FI-40/2/...	0.22	SPI-50/NPE	0.32
each additional contact unit:	0.04	I2M...2(-4)-1250+AV	91.0 (109.0)	FI-25/4/...	0.32	SPI-100/NPE	
T5(B)-1-.../Z	0.5	I2M...2(-4)-1600+AV	91.0 (109.0)	FI-40/4/...	0.32	Surge arresters	0.09 (0.14)
each additional contact unit:	0.1	I2M...2(-4)-2000+AV	91.0 (109.0)	FI-63/4/...	0.32	SPC-E(EH)-280	0.10
Motor-protective circuit-breakers		I2M...2(-4)-2500+AV	102.0 (123.0)	FI-80/4/...	0.32	SPC-E-460	0.08
PKZM0	0.28	I2M...2(-4)-3200+AV	113.0 (136.0)	FI-100/4/...	0.50	SPC-E-N/PE	0.07 (0.07)
PKZM4	1.20	I2M...3(-4)-4000+AV	148.0 (190.0)	FI-125/4/...	0.50	SPC-S-20/280(460)	0.22
NHI11-PKZ0	0.034	I2M...3(-4)-5000+AV	166.0 (227.0)	Rail-mounted service installation devices		SPC-S-N/PE	0.10 (0.22)
NHI12-PKZ0	0.042	Switch-disconnectors		ON/OFF switches		SPC-S-20/280/1(2)	0.33 (0.44)
NHI21-PKZ0	0.042	PN1-..., N1-...	0.93	Z-S/...	0.10	SPC-S-20/280/3(4)	0.12 (0.24)
NHI2-11S-PKZ0	0.090	PN1-4-..., N1-4-...	1.33	Z-S/...	0.07	SPC-S-20/460/1(2)	0.36
AGM2...-PKZ0	0.035	PN2-..., N2-...	2.15	Changeover switches		SPC-S-20/280/3	0.20 (0.44)
A-PKZ0	0.082	PN2-4-..., N2-4-...	2.65	Z-S...	0.08	SPC-S-1(3)+1	0.22
U-PKZ0	0.082	PN3-..., N3-...	5.7	Pushbuttons		Transformers	
S(E)00-11-PKZ0	0.23 (0.26)	PN3-4-..., N3-4-...	7.1	Z-PU/...	0.08	Single-phase control transformers, STN	
B3.0/2(0/4)-PKZ0	0.032 (0.07)	N4-...	17.0	Illuminated pushbuttons		STN0,06(0,1)...	1.5 (2.0)
B3.1/2(1/3)-PKZ0	0.038 (0.062)	N4-4-...	22.0	Z-LT/...	0.11	STN0,16(0,2)...	2.3 (3.0)
B3.1/4(1/5)-PKZ0	0.086 (0.11)	P7(74)-...	2.0 (2.9)	Z-PUL...	0.08	STN0,25(0,315)...	3,8 (4.3)
B3.2/2(2/4)-PKZ0	0.04 (0.09)	P10(104)-...	7.3 (9.7)	Indicator lights		STN0,4(0,5)...	5.2 (6.8)
PKZ2	0.56	IN...1(-4)-630	43.0 (50.0)	Z-L/...	0.06	STN0,63(0,8)...	7.7 (9.5)
ZM-...-PKZ2	0.22	IN...1(-4)-800	43.0 (50.0)	Signal lamps		STN1,0(1,3)...	13.4 (14.9)
NHI11-PKZ2	0.09	IN...1(-4)-1000	43.0 (50.0)	Z-EL...	0.07	STN1,6(2,0)...	17.4 (20.5)
NHI22-PKZ2	0.1	IN...1(-4)-1250	43.0 (50.0)	Z-DL...	0.07	STN2,5(3,0)...	20.5 (26.0)
NHI...S-PKZ2	0.18	IN...1(-4)-1600	43.0 (50.0)	Impulse relays		STN4,0...	34.5
AGM-PKZ2	0.04	IN...2(-4)-800	56.0 (67.0)	Z-S...	0.12	Single-phase control transformers, STI	
R-PKZ2	0.5	IN...2(-4)-1000	56.0 (67.0)	Z-S230/4S(WW)	0.28 (0.25)	STI0,06(0,1)...	1.5 (2.0)
U(A)-PKZ2	0.19	IN...2(-4)-1250	56.0 (67.0)	Z-S230/2S20	0.28	STI0,16(0,2)...	2.3 (3.0)
S-PKZ2	0.85	IN...2(-4)-1600	56.0 (67.0)	Z-SC...	0.28	STI0,25(0,4)...	3,6 (5.1)
CL-PKZ2	0.52	IN...2(-4)-2000	56.0 (67.0)	Z-SB...	0.12	DTI0,5(0,63)...	6.1 (8.9)
Circuit-breakers		IN...2(-4)-2500	59.0 (71.0)	Installation relays		DTI1,0(1,6)...	12.9 (18.5)
NZM...1-...	1.05	IN...2(-4)-3200	64.0 (77.0)	Z-R.../...	0.12	DTI0,2(2,5)...	22.4 (29.3)
NZM...1-4-...	1.33	IN...3(-4)-4000	82.0 (99.0)	Z-R.../4S(2S20)	0.25 (0.25)	DTI4,0(6,3)...	39.6 (50.2)
NZM...2-...	2.35	IN...3(-4)-5000	82.0 (99.0)	Z-R.../3S10	0.25	Single-phase control transformers, STZ	
NZM...2-4-...	3.5	IN...3(-4)-6300	90.0 (108.0)	Z-RE.../...	0.12	STZ0,06(0,1)...	1.5 (2.0)
NZM...3-...	6.34	IN...1(-4)-630+AV	70.0 (84.0)	Z-RE23/230	0.25	STZ0,16(0,2)...	2.3 (3.0)
NZM...3-4-...	8.4	IN...1(-4)-800+AV	70.0 (84.0)	Z-RK.../...	0.12	STZ0,25(0,315)...	3,8 (4.3)
NZM...4-...	21.0	IN...1(-4)-1000+AV	70.0 (84.0)	Z-RK23/230	0.25	STZ0,4(0,5)...	5.2 (6.8)
		IN...1(-4)-1250+AV	70.0 (84.0)	Installation contactors		STZ0,63(0,8)...	7.7 (9.5)
		IN...1(-4)-1600+AV	70.0 (84.0)	Z-SCH.../25-...	0.22	STZ1,0(1,3)...	13.4 (14.9)
		IN...2(-4)-800+AV	91.0 (109.0)	Z-SCH.../40-...	0.36	STZ1,6(2,0)...	17.4 (20.5)
		IN...2(-4)-1000+AV	91.0 (109.0)	Z-SCH.../63-...	0.36		
		IN...2(-4)-1250+AV	91.0 (109.0)	Staircase timers			
		IN...2(-4)-1600+AV	91.0 (109.0)	Z-TLG	0.08		
		IN...2(-4)-2000+AV	102.0 (123.0)	Light intensity switches			
		IN...2(-4)-2500+AV	102.0 (123.0)	Z-LMS	0.23		
		IN...2(-4)-3200+AV	113.0 (136.0)				
		IN...3(-4)-4000+AV	148.0 (190.0)				
		IN...3(-4)-5000+AV	148.0 (190.0)				
		IN...3(-4)-6300+AV	166.0 (227.0)				
		P1-.../I2	0.6				
		P3-63/I4	0.8				
		P3-100/I5	1.2				
		Remote operators					
		NZM2-XR...	1.30				
		NZM3-XR...	2.80				
		NZM4-XR...	6.10				
		R-NZM7	1.33				
		R-NZM10	5.50				

Notes

This table contains the weight of only the individual components and certain equipment combinations. To calculate weights of other combinations, simply add or subtract the individual weights. Where applicable, add a small percentage for wiring and accessories (e.g. BT assembly parts and screws).



Type	Weight kg	Type	Weight kg	Type	Weight kg	Type	Weight kg
ST22,5(3,0)...	20.5 (26.0)	DTSP5,0(6,3)...	39.6 (45.0)	DDK10,0(12,5)-9,2	70.0 (80.0)	CI43X-200	2.85
ST24,0(5,3)...	34.5 (34.5)	DTSP8,0(10)...	55.0 (70.0)	DDK16,0(2005)-9,2	95.0 (125.0)	CI44X-125	2.90
ST28,3(13,3)...	34.5 (34.5)	DTFSP12,5(16)...	80.0 (95.0)	DDK25,0(40,0)-9,2	160 (190.0)	CI44X-150	3.08
Three-phase control transformers, DTZ		DTFSP20(25)...	125.0 (160)			CI44X-200	3.44
DZTZ0,1(0,16)...	1.9 (2.5)	DTFSP32(40)...	161.0 (190.0)	MCB enclosures		CI44X-250	3.70
DZTZ0,25(0,4)...	3.6 (5.1)	DTFSP50(63)...	232.0 (264.0)	AE/I23E	1.89	CI45X-200	4.70
DZTZ0,5(0,63)...	6.1 (8.9)	DTFSP80(100)...	355.0 (388.0)	AE/I43E	3.36	CI23-125	1.23
DZTZ1,0(1,6)...	12.9 (18.5)	Single-phase transformers, ET-MED		AE/I44E	4.33	CI23-150	1.35
DZTZ2,0(2,5)...	22.4 (29.3)	ET3,15(4,0)....-MED	31.0 (35.0)			CI43-125	1.78
DZTZ4,0(6,3)...	39.6 (50.2)	ET5,3(6,3)....-MED	45.0 (55.0)	Fuse bases		CI43-150	1.92
DZTZ8,0(10)...	55.0 (70.0)	ET8,3....-MED	60.0	S14-1/C	0.10	CI43-200	2.34
DZTZ12,5(20)...	80.0 (125.0)	Three-phase transformers, DT-MED		S18-1/C	0.10	CI44-125	2.32
DZTZ25...	160.0	DT3,15(4,0)....-MED	36.0 (40.0)	S27-1/(C)	0.10 (0.12)	CI44-150	2.50
Single-phase matching transformers, ET		DT5,3(6,3)....-MED	55.0 (60.0)	S33-1/(C)	0.15 (0.17)	CI44-200	2.86
ET0,03(0,06)...	0.7 (0.8)	DT8,3....-MED	70.0	S27/(C)	0.30	CI44-250	3.11
ET0,1(0,16)...	1.5 (2.0)	Single-phase multi-winding transformers		S33/(C)	0.45	CI45-200	4.10
ET0,2(0,25)...	2.3 (3.0)	UTI		S27/I	1.10	CI48-200	4.62
ET0,315(0,4)...	3.8 (4.3)	UTI0,1-115(24)	2.0 (2.0)	S33/I	1.60	CI48-250	5.13
ET0,5(0,63)...	5.2 (6.8)	UTI0,2-115(24)	3.0 (3.0)	RS183-50	0.40	Meter enclosures	
ET0,8(1,0)...	7.7 (9.6)	UTI0,315-115(24)	4.3 (4.3)	RS273-50	0.50	ZG/143E-G-150	4.4
ET1,3(1,6)...	13.4 (14.9)	UTI0,5-115(24)	7.3 (6.8)	RS333-50	0.70	ZG/143E-G-200	4.8
ET2,0(2,5)...	20.0 (21.0)	UTI0,63-115(24)	7.7 (7.7)			ZG/144E-G-150	5.4
ET3,0(4,0)...	26.0 (32.0)	UTI0,8-115(24)	9.6 (9.6)	Fuse enclosures		ZG/144E-G-200	6.1
ET5,0(6,3)...	35.0 (40.0)	UTI1,0-115(24)	13.4 (13.4)	RS27/I23E	4.05	ZG/148-200	10.5
ET8,0(10)...	55.0 (67.0)	Three-phase starting transformers, DTA		RS18/I23E	4.11		
ET13(16)...	80.0 (95.0)	DTA0,8 (1,3)...	7.5 (11.0)	RS27/I43E	7.13	Insulating flanges	
ET20(25)...	106.0 (134.0)	DTA2,5 (3,2)...	22.4 (27.7)	RS18/I43E	7.22	FL1-X	0.12
Three-phase matching transformers, DT		DTA4,0 (6,3)...	31.0 (45.0)	RS33/I43E	6..65	FL2-X	0.16
DT	1.9 (2.5)	DTA8,0 (10,0)...	55.0 (70.0)	Low-voltage h.b.c. fuse bases		FL3-X(1,2)	0.21
DT0,1(0,16)...	3.6 (5.1)	DTA12,5 (16,0)...	80.0 (95.0)	GS00(1)	0.9 (1.6)	FL4-X(1,2,3,4,5)	0.30
DT0,25(0,4)...	6.1 (8.9)	DTA20,0(1,3)...	125.0	GS2(3)	2.1 (3.0)		
DT0,5(0,63)...	12.9 (12.9)	Universal power supply units				Mounting plates	
DT0,8(1,0)...	15.7 (18,5)	AING	3.2 (3.7)	Low-voltage h.b.c. fuse switch-disconnectors		M3-CI23 (43)	0.79 (1.96)
DT1,3(1,6)...	22.4 (29.3)	AING4(8)		GSTA00(1)	0.8 (2.4)	M3-CI44 (48)	2.80 (5.50)
DT2,0(2,5)...	34.8 (39.6)	DEG smoothing chokes		GSTA2(3)	3.2 (4.9)	M3-CI45	3.50
DT3,2(4,0)...	44.2(50.2)	DEG0,03(0,06)...	0.7 (1.5)	GSTZ00(1)	2.3 (5.1)	IM4-CI23 (43)	0.50
DT5,0(6,3)...	55.0 (70.0)	DEG0,1(0,16)...	2.0 (2.3)	GSTZ2(3)	5.8 (7.9)	IM4-CI44 (48)	0.70 (1.60)
DT8,0(10)...		DEG0,2(0,25)...	3.0 (3.8)			Pre-drilled mounting plates	
Three-phase matching transformers, DTF		DEG0,315(0,4)...	4.3 (5.2)	Fuse enclosures with switches		L1-CI23	0.79
DTF	80.0 (95.0)	DEG0,5(0,63)...	6.8 (7.7)	TS31-25/I23E	2.40	L3/5-CI23	0.79
DTF12,5(16)...	125.0 (160)	DEG08(1,0)...	9.6 (13.4)	TS13-25/1...	2.00	L1-CI43	1.96
DTF20(25)...	161.0 (190.0)	DEG1,3(1,6)...	14.9 (17.4)	TS13-25/I23E	2.40	L3-CI43	1.96
DTF32(40)...	232.0 (264.0)	DEG2,0(2,5)...	21.5 (21.5)	TS23-25/I23E	3.40	L5-CI43	1.96
DTF50(63)...	355.0 (388.0)	DEG3,0(4,0)...	26.0 (35.0)	TS13-63/I23E(SVB)	2.55	L1-CI44	2.80
DTF80(100)...	385.0 (497.0)	DEK single-phase commutating chokes		NGS100/I43E	5.54	L5-CI44	2.80
DTF125(160)...	547.0 (664.0)	DEK0,03-9,2(16)	0.7 (0.7)			L5-CI48	5.50
DTF200(250)...	908.0	DEK0,06-9,2(16)	1.5 (1.5)	Small enclosures		Power modules	
DZF315...		DEK0,1-9,2(16)	2.0 (2.0)	CI-K1-95-TS	0.21	DOL starters	
Single-phase autotransformers, ETSP		DEK0,16-9,2(16)	2.3 (2.3)	CI-K2-100-TS(M)	0.35 (0.48)	XS1-DSO-340-K...	0.80
ETSP0,03(0,06)...	0.7 (0.8)	DEK0,2-9,2(16)	3.0 (3.0)	CI-K2-145-TS(M)	0.43 (0.56)	XS1-DSO-340-1K5	0.80
ETSP0,1(0,16)...	1.5 (2.0)	DEK0,25-9,2(16)	3.8 (3.8)	CI-K3-125-TS(M)	0.58 (0.73)	XS1-DSO-340-2K2	0.80
ETSP0,2(0,25)...	2.3 (3.0)	DEK0,315-9,2(16)	4.3 (4.3)	CI-K3-160-TS(M)	0.68 (0.82)	XS1-DSO-340-3K0	0.64
ETSP0,315(0,4)...	3.8 (4.3)	DEK0,4-9,2(16)	5.2 (5.2)	CI-K4-125-TS(M)	0.82 (1.03)	XS1-DSO-340-4K0	0.64
ETSP0,5(0,63)...	5.2 (6.8)	DEK0,5-9,2(16)	6.8 (6.8)	CI-K4-160-TS(M)	0.95 (1.16)	XS1-DSO-341-K...	1.20
ETSP0,8(1,0)...	7.7 (9.6)	DEK0,63-9,2(16)	7.7 (7.7)	CI-K5-125-TS(M)	1.09 (1.50)	XS1-DSO-341-1K5	1.20
ETSP1,3(1,6)...	13.4 (14.9)	DEK0,8-9,2(16)	9.6 (9.6)	CI-K5-160-TS(M)	1.23 (1.65)	XS1-DSO-341-2K2	1.20
ETSP2,0(2,5)...	20.0 (21.0)	DEK1,0-9,2(16)	13.4 (13.4)			XS1-DSO-341-3K0	2.00
ETSP3,0(4,0)...	26.0 (32.0)	DEK1,3-9,2(16)	14.9 (14.9)	Enclosures		XS1-DSO-341-4K0	2.00
ETSP5,0(6,3)...	35.0 (40.0)	DEK1,6-9,2(16)	17.4 (17.4)	CI23E-125	1.30	Reversing starters	
ETSP8,0(10)...	55.0 (67.0)	DEK2,0-9,2(16)	21.5 (21.5)	CI23E-150	1.42	XS1-RSO-340-K...	1.40
ETSP13(16)...	80.0 (95.0)	DEK2,5-9,2(16)	21.5 (21.5)	CI43E-125	1.88	XS1-RSO-340-1K5	1.40
ETSP20(25)...	106.0 (134.0)	DEK3,0-9,2(16)	26.0 (26.0)	CI43E-150	2.02	XS1-RSO-340-2K2	1.40
Three-phase autotransformers, DTSP		DDK three-phase commutating chokes		CI43E-200	2.44	XS1-RSO-340-3K0	2.00
DTSP	0.9 (1.9)	DDK0,1(0,16)-9,2	0.9 (1.9)	CI44E-125	2.58	XS1-RSO-340-4K0	3.00
DTSP0,1(0,16)...	2.5 (3.6)	DDK0,25(0,4)-9,2	2.5 (3.6)	CI44E-150	2.75	XS1-RSO-341-K...	1.20
DTSP0,25(0,4)...	5.1 (6.1)	DDK0,5(0,63)-9,2	5.1 (6.1)	CI44E-200	3.11	XS1-RSO-341-1K5	1.20
DTSP0,5(0,63)...	7.5 (8.9)	DDK1,0(1,3)-9,2	8.9 (11.0)	CI44E-250	3.37	XS1-RSO-341-2K2	1.20
DTSP0,8(1,0)...	11.0 (12.9)	DDK1,6(2,0)-9,2	12.9 (20.1)	CI45E-200	4.30	XS1-RSO-341-3K0	2.00
DTSP1,3(1,6)...	20.1 (22.4)	DDK2,5(3,2)-9,2	22.4 (30.0)	CI23X-125	1.50	XS1-RSO-341-4K0	2.00
DTSP2,0(2,5)...	27.7 (31.0)	DDK4,0(5,0)-9,2	31.0 (40.0)	CI23X-150	1.63		
DTSP3,2(4,0)...		DDK6,3(8,0)-9,2	45.0 (55.0)	CI43X-125	2.29		
				CI43X-150	2.44		

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Type	Weight kg	Type	Weight kg	Type	Weight kg
KLAS motor-starters		DF5 frequency inverters		DE...LZ... radio interference filters	
DOL starters		DF5-332-018	0.85	DE5-LZ1-007-V2	0.55
KLAS21-...-S-AC	0.85	DF5-332-037	0.85	DE5-LZ1-012-V2	0.76
KLAS21-...-S-DC	0.85	DF5-332-055	1.30	DE5-LZ1-024-V2	1.00
KLAS21-...-AC	0.76	DF5-332-075	1.30	DE5-LZ3-007-V4	0.76
KLAS21-...-DC	0.73	DF5-332-1K1	2.20	DE5-LZ3-011-V4	1.10
Reversing starters		DF5-332-1K5	2.20	DE5-LZ3-020-V4	2.40
KLAS32-...-W-AC	1.30	DF5-332-2K2	2.80	DE6-LZ3-013-V4	1.40
KLAS32-4-W-AC	1.60	DF5-340-037	1.30	DE6-LZ3-032-V4	2.50
KLAS32-5,5-W-AC	1.60	DF5-340-075	1.70	DE6-LZ3-064-V4	4.50
KLAS32-7,5-W-AC	1.96	DF5-340-1K5	1.70	DE6-LZ3-080-V4	4.00
KLAS32-...-W-DC	1.36	DF5-340-2K2	2.80	DE6-LZ3-115-V4	6.00
KLAS32-4-W-DC	2.08	DF5-340-3K0	2.80	DE6-LZ3-115-V4	6.00
KLAS32-5,5-W-DC	2.08	DF5-340-4K0	2.80	DE6-LZ3-150-V4	8.80
KLAS32-7,5-W-DC	2.58	DF5-340-5K5	5.50	DE6-LZ3-220-V4	9.30
		DF5-340-7K5	5.70	DE6-LZ3-260-V4	13.70
DS4 semiconductor contactors and softstarters		DV5 vector frequency inverters		Mains chokes DEX-LN...	
Semiconductor contactors		DV5-322-018	0.70	DEX-LN1-006	0.70
DS4-140-010(020)-H	0.80 (0.80)	DV5-332-037	1.00	DEX-LN1-009	0.75
DS4-140-030(050)-H	0.98 (1.22)	DV5-332-055	1.00	DEX-LN1-013	1.40
Semiconductor contactors and softstarters		DV5-332-075	1.30	DEX-LN1-018	1.50
DS4-340-2K2-M	0.80	DV5-332-1K1	1.30	DEX-LN1-024	2.00
DS4-340-4K0-M	1.02	DV5-332-1K5	2.30	DEX-LN3-004	1.50
DS4-340-5K5-M	1.02	DV5-340-2K2	2.90	DEX-LN3-006	1.50
DS4-340-7K5-M	1.76	DV5-340-037	1.30	DEX-LN3-010	3.20
DS4-340-11K-M	1.72	DV5-340-075	1.70	DEX-LN3-016	2.50
DS4-340-2K2-M-DC	0.80	DV5-340-1K5	1.80	DEX-LN3-025	4.20
DS4-340-2K2-MR	0.84	DV5-340-2K2	1.90	DEX-LN3-025	4.20
DS4-340-4K0-MR	1.08	DV5-340-3K0	2.80	DEX-LN3-040	4.20
DS4-340-5K5-MR	1.08	DV5-340-4K0	2.80	DEX-LN3-050	5.20
DS4-340-7K5-MR	1.80	DV5-340-5K5	5.50	DEX-LN3-060	5.40
DS4-340-11K-MR	1.78	DV5-340-7K5	5.70	DEX-LN3-080	7.30
Softstarters		DF6 frequency inverters		DEX-LN3-100	9.60
DS4-340-7K5-MX	0.80	DF6-340-11K	2.0	DEX-LN3-120	9.60
DS4-340-11K-MX	0.80	DF6-340-15K	2.0	DEX-LN3-160	11.60
DS4-340-15K-MX	1.62	DF6-340-18K5	7.2	DEX-LN3-200	14.90
DS4-340-7K5-MXR	0.90	DF6-340-22K	7.0	DEX-LN3-250	16.90
DS4-340-11K-MXR	0.90	DF6-340-30K	7.0	DEX-LN3-300	16.90
DS4-340-15K-MXR	1.90	DF6-340-37K	20.0		
DM4 softstarters		DF6-340-45K	32.0		
DM4-340-7K5	5.6	DF6-340-55K	32.0		
DM4-340-11K	5.6	DF6-340-75K	35.0		
DM4-340-15K	6.0	DF6-340-90K	55.0		
DM4-340-22K	6.0	DF6-340-110K	52.0		
DM4-340-30K	7.0	DF6-340-132K	80.0		
DM4-340-37K	7.0	DV6 vector frequency inverters			
DM4-340-45K	8.1	DV6-340-075	3.2		
DM4-340-55K	8.1	DV6-340-1K5	3.3		
DM4-340-75K	8.1	DV6-340-2K2	3.5		
DM4-340-90K	15.5	DV6-340-4K0	3.5		
DM4-340-110K	15.5	DV6-340-5K5	3.5		
DM4-340-132K	22.0	DV6-340-7K5	5.2		
DM4-340-160K	22.0	DV6-340-11K	5.3		
DM4-340-200K	22.0	DV6-340-15K	10.0		
DM4-340-250K	65.0	DV6-340-18K5	11.0		
DM4-340-315K	65.0	DV6-340-22K	11.0		
DM4-340-400K	72.0	DV6-340-30K	21.0		
DM4-340-500K	72.0	DV6-340-37K	30.0		
		DV6-340-45K	30.0		
		DV6-340-55K	32.0		
		DV6-340-75K	56.0		
		DV6-340-90K	58.0		
		DV6-340-110K	80.0		
		DV6-340-132K	80.0		

Notes

This table contains the weight of only the individual components and certain equipment combinations. To calculate weights of other combinations, simply add or subtract the individual weights. Where applicable, add a small percentage for wiring and accessories (e.g. BT assembly parts and screws).



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This glossary contains brief explanations of some of the standard terms used in this catalogue. Because the new terms used in IEC/EN 60947 can be open to interpretation, it is always advisable to also refer to the relevant standard.

To help you find the applicable section more easily, the standard in which each term is defined is given under the term, e.g. IEC/EN 60947-1. In addition, IEC numbers are given to help you find foreign-language equivalents in the International Electrotechnical

Vocabulary (IEC 50), e.g. IEC 441-17-31. Further definitions of technical and other standard terms can be found in the "Lexikon Schaltgeräte and Automatisierung" (available in German only). (Order ref.: TB0-012, Article no. 031954).

Altitude

The density of air decreases with increasing altitude, and this reduces its insulating capacity as well as its heat transfer capability. This affects the **rated operational voltage** and **rated operational current** of switching devices, conductors and motors, as well as the tripping behaviour of thermal overload relays. On request, Moeller can supply information about the suitability of equipment for operation at altitudes above the standard-specified 2000 m.

Ambient temperature, enclosed
(see also IEC 441-11-13)

Temperature at which the switching device is capable of being operated within a closed housing. The elevated temperature inside the enclosure due to the device's **heat dissipation** must be taken into account here.

Ambient temperature, open
(see also IEC 441-11-13)

Room temperature (for example of the shopfloor or control room) in which the device is located.

Back-of-hand proof

A device whose live parts cannot be touched by a sphere of 50 mm diameter is regarded as back-of-hand proof.

Clearance in air
(see also IEC/EN 60947-1; 2.5.46/IEV 441-17-31)

The distance between the two conductive parts at the point at which they are closest to each other. The clearance in air is determined by the **rated impulse withstand voltage**, the **overvoltage category** and the **pollution degree**.

Closing delay

The interval of time between the instant of command and the first make operation of the contacts of the first pole to close. The closing delay is made up of the response time and the closing time.

Control circuit reliability

Measures the probability of switching states arising during the lifespan of a contact, that would be interpreted as faults by downstream electronic controllers (PLCs). Control circuit reliability is expressed in values based on tests using standard limit values for signals to IEC/EN 61131-2.

Conventional free air thermal current I_{th}
(see also IEC/EN 60947-1; 4.3.2.1)

The maximum value of current that a device is capable of carrying for a maximum of 8 hours without thermal overloading. As a rule, it corresponds to the maximum rated operational current.

Coordination type

State of a switchgear combination (motor starter) during and after testing at **rated conditional short-circuit current**:

Type "1" coordination:

- No risk to persons or installations
- No need for immediate operational readiness
- Damage to the starter is admissible

Type "2" coordination:

- No risk to persons or installations
- Starter is capable of renewed operation
- No damage to the starter except for light contact welding that can be easily separated without significant deformation

Creepage path/distance
(see also IEC/EN 60947-1; 2.5.51/IEV 151-03-37)

Shortest distance along the surface of the insulating material between two conductive elements.

The creepage distance is determined by the **rated insulation voltage**, the **pollution degree** and the creepage current resistance of the material used.

Damp heat, constant

This test subjects the equipment to an ambient temperature of 40 °C at a constant humidity of 93 %. At set intervals during the test, the electrical and mechanical function of the equipment are examined.

Damp heat, cyclic

This test subjects the equipment to cyclically changing climatic conditions. a cycle applies 40 °C at 93 % relative humidity for 12 hours, followed by 12 hours of 25 °C ambient temperature. At set intervals during the test, the electrical and mechanical function of the equipment are examined.

Emergency-Stop switching device

Switching device within an Emergency-Stop circuit that is intended to prevent danger to persons and damage to machinery or materials.

Finger-proof

A device whose live parts cannot be touched by the operator during actuation is termed finger-proof. This applies also to operator activity in adjacent switching devices. The finger-proof area of a push-actuated operating medium is a circular area of at least 30 mm radius around the actuating element, and vertical to the direction of actuation. Within this circular area, touch-critical parts must be located at not less than 89 mm below the actuating level.

<p>Interlocked opposing operation (see also IEC/EN 60947-5-1; 2.4.11 / IEC 441-16-12)</p>	<p>Interlocked opposing contacts of a contactor are mechanically connected so that the break contact and the make contact can never be closed at the same time. Contact gaps of at least 0.5 mm must be guaranteed throughout the device's entire service life, even in the event of a fault (such as welding of a contact). The employers liability insurance association demands the use of contactors with interlocked opposing contacts for controllers of power-operated presses in the metal processing industry.</p>
<p>Isolating function (see also IEC/EN 60947-1; 2.1.19)</p>	<p>Devices are deemed to possess this isolating function if, in the open position, their switching contacts achieve the separation distance specified for the isolation of electrical circuits, and their creepage paths and clearance distances are of the required magnitude. This allows the power supply of the entire installation or a section of the installation to be isolated for safety reasons, for example during maintenance.</p>
<p>Losses (see also IEC 151-03-18)</p>	<p>The difference between the input power and the output power of a device. The main type of loss in switching devices and electrical power distribution equipment is current heat loss.</p>
<p>Mechanical shock resistance</p>	<p>The ability of a device to withstand pulse-like movement without changing its operating state or sustaining damage. No contact lifting must take place on devices in the On position, the main contacts must not knock against one another in the Off position. A protective switch must not trip, and control circuit switches must not change their switching state.</p>
<p>Minimum command time</p>	<p>Minimum period of time for which a trip-initiating factor (such as a control pulse or a short-circuit current) must be present to cause the corresponding reaction, for example the short-circuit duration necessary to initiate tripping.</p>
<p>Mirror contact (see also IEC/EN 60947-4-1 Appendix F)</p>	<p>A mirror contact is an auxiliary break contact that can not be closed at the same time as the contactor's main make contacts.</p>
<p>Motor rating, rated power (see also IEC/EN 60947-1; 4.3.2.3)</p>	<p>The power output of a motor at its rated operational voltage.</p>
<p>Opening delay (see also IEC 441-17-36)</p>	<p>The interval of time between the specified instant of initiation of the opening operation and the instant when the arcing contacts have separated in all poles. The opening delay is the sum of the tripping delay and the inherent delay of the contacts.</p>
<p>Overvoltage category (see also IEC/EN 60947-1; 2.5.60)</p>	<p>Classification figure for prospective overvoltages at the point of installation, such as might be caused by the effect of lightning or switching processes. The overvoltage category for industrial switchgear is III. The overvoltage categories are defined as follows: Overvoltage category IV: Use allowed directly at the termination point of the installation (directly affected by any lightning), e.g. at an overhead line connection point. Overvoltage category III: Apparatus with special serviceability requirements for connection in fixed installations that are protected by overvoltage diverters, e.g. switches in low-voltage distribution systems or in control systems for industrial use. Overvoltage category II: Consumers for connection to fixed installations, e.g. household appliances or electrical tools. Overvoltage category I: Apparatus for connection to circuits with overvoltage protection, e.g. electronic devices.</p>
<p>Pollution degree (see also IEC/EN 60947-1; 5.5.58)</p>	<p>Classification figure for the likely amount of conductive dust and humidity, which can lead to a reduced electric strength of a switching device. Pollution degree is defined as follows: Pollution degree 1: No pollution or only dry, non-conductive pollutants occur. The pollution does not affect electric strength. Pollution degree 2: Normally only non-conductive pollution, but temporary conductivity due to condensation is possible. Pollution degree 3: (switchgear for industrial use) Conductive pollution or dry, non-conductive pollution that is made conductive through condensation. Pollution degree 4: Pollution leading to continuous conductivity, for example conductive dust, rain or snow.</p>
<p>Positive opening (see also IEC/EN 60947-1; 2.4.10/IEC 441-16-11)</p>	<p>An opening operation which ensures that the main contacts of a mechanical switching device have attained the open position when the actuator is in the Off position.</p>
<p>Positive/enforced operation/actuation</p>	<p>This describes an arrangement where a mechanical link between the actuator and the switching element ensures that the force exerted on the actuator is exerted directly, i.e. without the intervention of spring-loaded parts, onto the switching element.</p>
<p>Protection against direct contact</p>	<p>Design measures incorporated into equipment to prevent direct contact (i.e. without tools) with live parts of a system (finger-proof, back-of-hand proof).</p>
<p>Rated actuating voltage U_c (see also IEC/EN 60947-1; 4.5.1)</p>	<p>The voltage that is applied to the actuating make contact in a control circuit. Due to the presence of transformers or resistors in the control circuit, this voltage may differ from the rated control voltage.</p>



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Rated breaking capacity (see also IEC/EN 60947-1; 4.3.5.3)	The r.m.s. value that a switching device is capable of breaking according to its utilization category . This value refers to the rated operational voltage and the rated operational current . Equipment must be capable of breaking of current up to and including its specified rated breaking capacity.
Rated conditional short-circuit current I_q (see also IEC/EN 60947-1; 2.5.29/IEV 441-17-20)	The short-circuit current that a switching device, e.g. a circuit-breaker, protected by a short-circuit protective device, such as a motor-protective circuit-breaker, can carry for the duration of the tripping delay of the protective mechanism.
Rated control voltage U_s (see also IEC/EN 60947-1; 4.5.1)	The voltage applied to the input terminals of the control circuit of a device. Due to the presence of transformers or resistors in the control circuit, this voltage may differ from the rated actuating (control circuit) voltage .
Rated current I_n (of a circuit-breaker) (see also IEC/EN 60947-2; 4.3.2.3)	For circuit-breakers, this current value is equal to the rated uninterrupted current and the conventional free air thermal current .
Rated frequency (see also IEC/EN 60947-1; 4.3.3)	The frequency for which a device is designed and to which the other characteristics relate.
Rated impulse withstand voltage U_{imp} (see also IEC/EN 60947-1; 4.3.1.3)	Measure of the stability of the internal clearances of a device against overvoltage peaks. The utilization of suitable switchgear can ensure that overvoltages are prevented from transferring from the mains to de-energized system sections within it.
Rated insulation voltage U_i (see also IEC/EN 60947-1; 4.3.1.2)	The voltage to which insulation tests and creepage distances of a device relate. The highest rated operational voltage must not be greater than the rated insulation voltage.
Rated making capacity (see also IEC/EN 60947-1; 4.3.5.2)	The value of current that a device is capable of switching On in accordance with the utilization category and at the rated operational voltage .
Rated operational current I_c (see also IEC/EN 60947-1; 4.3.2.3)	The current that a device is capable of carrying, taking into account the rated operational voltage, duration of operation, utilization category and ambient temperature.
Rated operational voltage U_e (see also IEC/EN 60947-1; 4.3.1.1)	The voltage to which the characteristics of a device relate. The highest rated operational voltage must not be greater than the rated insulation voltage .
Rated power, (AC) rating (see also IEC/EN 60947-1; 4.3.2.3)	The operational power that a device is capable of switching at the associated rated operational voltage in accordance with the utilization category, e.g. contactor utilization category AC-3: 37 kW at 400 V.
Rated service short-circuit breaking capacity I_{cs} (see also IEC/EN 60947-2; 4.3.5.2.2)	The prospective short-circuit current which, depending on the rated operational voltage , a circuit-breaker is capable of breaking repeatedly (test cycle O-CO-CO, previously P-2). After interrupting this short-circuit current value, the circuit-breaker must be capable of continuing to carry the rated uninterrupted current and disconnect it in the event of an overload, despite an increase in its own thermal level.
Rated short-circuit breaking capacity I_{cn} (see also IEC/EN 60947-1; 4.3.6.3)	The maximum value of current that a device is capable of switching Off at rated operational voltage and rated frequency, and without sustaining damage. It is expressed as r.m.s. value.
Rated short-circuit making capacity I_{cm} (see also IEC/EN 60947-1; 4.3.6.2)	The maximum value of current that a device is capable of switching On at rated operational voltage and rated frequency, and without sustaining damage. Unlike for other characteristic values, it is expressed as maximum prospective peak value.
Rated short-time withstand current I_{cw} (see also IEC/EN 60947-1; 4.3.6.1)	The short-time withstand current that a device is capable of carrying for a specified time without damage, e.g. due to excessive heating.
Rated ultimate short-circuit breaking capacity I_{cu} (see also IEC/EN 60947-2; 4.3.5.2.1)	The maximum prospective fault current that a circuit-breaker is capable of interrupting (test cycle O-CO, previously P-1). After interrupting this short-circuit value, the circuit-breaker must be capable of disconnecting in the event of overload, but at a higher tolerance level.
Rated uninterrupted current I_u (see also IEC/EN 60947-1; 4.3.2.4)	The value of current that a device can carry in uninterrupted operation (for weeks, months or years).
Safe isolation (see also VDE 0106 Part 101)	Isolation of circuits not carrying hazardous voltage, e.g. protective extra-low voltage, from circuits in which hazardous voltage flows. Such isolation is achieved by means of reinforced or double insulation, which reliably prevents voltage transfer from one circuit to another. This might otherwise take place between main circuits and control circuits in switching devices or between the primary and secondary sides of safety transformers. "Safe isolation" is a priority requirement for safety circuits and functional low-voltage circuits.
Tamper-proof	An Emergency-Stop switching device is regarded as tamper-proof if it cannot be reset without tools or using specified procedures after tripping. The device remains locked in the switching position, ruling out accidental or deliberate manipulation (inching).

Utilization category

(see also IEC/EN 60947-1; 2.1.18/IEV 441-17-19)

A combination of specified requirements relating to the condition in which the switching device or fuse fulfills its purpose and selected to represent a characteristic group of real-life applications. The specified requirements may, for example, relate to the values of making and breaking capacity and other characteristic values, data concerning associated circuits and the applicable conditions of use and operational behaviour.

(see also IEC/EN 60947-2; 4.4)

For circuit-breakers, the utilization category denotes whether the equipment is designed for selectivity using time delay (category B) or not (category A).

Symbols used in technical data and formulae

DF	Duty factor	I_T	Response value of earth-fault release
		I_g	Response value of earth-fault release
$I_{\Delta n}$	Response value of earth-fault release	I_{th}	Conventional free air thermal current
I_{cm}	Rated short-circuit making capacity	I_{the}	Conventional thermal current of enclosed devices
I_{cn}	Rated short-circuit breaking capacity	I_u	Rated uninterrupted current
I_{cs}	Rated service short-circuit breaking capacity	S_{NT}	Transformer rating
I_{cu}	Rated ultimate short-circuit breaking capacity	t_r	Time delay of overload release response
I_{cw}	Rated short-time withstand current	t_T	Time delay of earth-fault release response
		t_g	Time delay of earth-fault release response
I_e	Rated operational current	t_v	Time delay of short-circuit release response
i_k'	Transformer initial short-circuit AC current	U_c	Rated actuating voltage
I_L	Load monitoring response value	U_e	Rated operational voltage
I_n	Rated current	U_i	Rated insulation voltage
I_{NT}	Transformer rated current	U_{imp}	Rated impulse withstand voltage
I_{PK}	Rated peak withstand current	u_k	Transformer short-circuit voltage
I_q	Rated conditional short-circuit current	U_s	Rated control voltage
I_r	Overcurrent release set value		
I_{rm}	Response value of non-delayed short-circuit release		
I_i	Response value of non-delayed short-circuit release		
I_{rmf}	Response value of fixed, non-delayed short-circuit release		
I_{rmv}	Response value of short-time delayed short-circuit release		
I_{sd}	Response value of short-time delayed short-circuit release		

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