DATASHEET - DILM300A/22(RA250)



Contactor, 380 V 400 V 160 kW, 2 N/O, 2 NC, RA 250: 110 - 250 V 40 - 60 Hz/110 - 350 V DC, AC and DC operation, Screw connection



Part no. DILM300A/22(RA250)

139556

EL Number

4134296

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(Norway)	
General specifications	
Product name	Eaton Moeller® series DILM Contactor
Part no.	DILM300A/22(RA250)
EAN	4015081363346
Product Length/Depth	208 millimetre
Product height	189 millimetre
Product width	140 millimetre
Product weight	7.1 kilogram
Compliances	Contact Manufacturer
Certifications	VDE 0660 UL File No.: E29096 IEC/EN 60947-4-1 UL 60947-4-1 UL Category Control No.: NLDX CSA Class No.: 3211-04 EN 45545: Fire protection on railway vehicles CE marking CSA File No. 1017510 IEC 61373: Vibration and shock, tested for category 1 class B UL/CSA North America (UL listed, CSA certified)
Product Tradename	DILM
Product Type	Contactor
Product Sub Type	None
Catalog Notes	Contacts according to EN 50012 EN 45545 - Fire protection on railway vehicles: Fire protection class of all plastics according to UL94: V-0 / plastic weight in total: 1.872 kg
eneral information	
Accessories	Fitting options auxiliary contacts: on the side: 2 x DILM820-XHI11(V)-SI; 2 x DILM820-XHI11-SA
Application	Contactors for Motors
Connection	Screw terminals
Degree of protection	IP00
Electromagnetic compatibility	Designed for operation in industrial environments. Its use in residential environments may cause radio-frequency interference, requiring additional nois suppression.
Fitted with:	Suppressor circuit in actuating electronics
Lifespan, electrical	100,000 Operations (at Condensor operation)
Lifespan, mechanical	10,000,000 Operations (DC operated) 10,000,000 Operations (AC operated)
Operating frequency	3000 mechanical Operations/h (DC operated) 200 Operations/h 3000 mechanical Operations/h (AC operated)
Overvoltage category	III
Pollution degree	3
Product category	Contactors
Protection	Finger and back-of-hand proof with terminal shroud or terminal block, Protection against direct contact when actuated from front (EN 50274)
Rated impulse withstand voltage (Uimp)	8000 V AC
Resistance	500 m Ω (Admissible transitional contact resistance - of the external control circu device when actuating A11)
Shock resistance	10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 10 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 8 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms
Signal level	5 V - 15 V, PLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2), Magnet systems

Utilization category	AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching
Voltage type	AC/DC
Climatic environmental conditions	
Altitude	Max. 2000 m
Ambient operating temperature - min	-40 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	-40 °C
Ambient operating temperature (enclosed) - max	40 °C
Ambient storage temperature - min	-40 °C
Ambient storage temperature - max	80 °C
Climatic proofing	Damp heat, cyclic, to IEC 60068-2-30 Damp heat, constant, to IEC 60068-2-78
Terminal capacities	
Terminal capacity (busbar)	25 mm width, Main connection
Terminal capacity (copper band)	Fixing with flat cable terminal or cable terminal blocks; See terminal capacity for cable terminal blocks
Terminal capacity (flexible with cable lug)	50 - 240 mm²
Terminal capacity (flexible with ferrule)	$2 \times (0.75 - 2.5)$ mm ² , Control circuit cables $1 \times (0.75 - 2.5)$ mm ² , Control circuit cables
Terminal capacity (solid)	$2 \times (0.75 - 2.5) \text{ mm}^2$, Control circuit cables $1 \times (0.75 - 2.5) \text{ mm}^2$, Control circuit cables
Terminal capacity (solid/stranded AWG)	2/0 - 500 MCM, Main cables 18 - 14, Control circuit cables
Terminal capacity (stranded with cable lug)	70 - 240 mm²
Width across flats	16 mm
Screw size	M3.5, Terminal screw, Control circuit cables M10, Terminal screw, Main connections
Screwdriver size	2, Terminal screw, Control circuit cables, Pozidriv screwdriver
Tightening torque	24 Nm, Main cable connection screw/bolt 1.2 Nm, Screw terminals, Control circuit cables
Electrical rating	
Inrush current	Max. 30 x le (peak)
Rated breaking capacity at 220/230 V	3000 A
Rated breaking capacity at 380/400 V	3000 A
Rated breaking capacity at 500 V	3000 A
Rated breaking capacity at 660/690 V	3000 A
Rated breaking capacity at 1000 V	950 A
Rated insulation voltage (Ui)	1000 V
Rated making capacity (cos phi to IEC/EN 60947)	3000 A
Rated operational current (Ie)	177 A at 690 V (Individual compensation, three-phase capacitors, open) 307 A at up to 525 V (Individual compensation, three-phase capacitors, open)
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	490 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	300 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	300 A
Rated operational current (le) at AC-3, 440 V	300 A
Rated operational current (Ie) at AC-3, 500 V	300 A
Rated operational current (le) at AC-3, 660 V, 690 V	185 A
Rated operational current (le) at AC-3, 1000 V	95 A
Rated operational current (le) at AC-4, 220 V, 230 V, 240 V	240 A
Rated operational current (Ie) at AC-4, 440 V	240 A
Rated operational current (Ie) at AC-4, 500 V	240 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	150 A
Rated operational current (Ie) at AC-4, 1000 V	76 A
Rated operational power at AC-3, 240 V, 50 Hz	100 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	160 kW
Rated operational power at AC-3, 415 V, 50 Hz	175 kW
Rated operational power at AC-3, 440 V, 50 Hz	185 kW

Rest of grant found power at AC 9, 600 ft, 90 ft 100 miles (100 miles) (100 mi	Rated operational power at AC-3, 500 V, 50 Hz	210 kW
Risad open sitionic powers at AC 2, 1901 V, 59 Hz Risad open sitionic powers at AC 2, 1902 V, 50 Hz Risad open sitionic power at AC 2, 1902 V, 50 Hz Risad open sitionic power at AC 2, 1902 V, 50 Hz Risad open sitionic power at AC 2, 1902 V, 50 Hz Risad open sitionic power at AC 2, 1902 V, 50 Hz Risad open sitionic power at AC 2, 1902 V, 50 Hz Risad open sitionic power at AC 3, 1902 V, 50 Hz Risad open sitionic power at AC 4,		
Related oppositional power at ACA 4, 2002-200 y, 20 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Related operational power at ACA 4, 400, 50 Met. Solid institution Special purpose relating of Gelfinite purpose resting Related operational power at ACA 4, 400, 50 Met. Solid institution Special purpose relating of Gelfinite purpose resting Related operational power at ACA 4, 400, 50 Met. Solid institution Shark-circuit rating Shark-circuit rating plops fleate resting Shark-circuit rating Shark-circuit rati		
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Fixed agentical prover at AC-4, 409 V, 50 Hz Risted agentical victoria (CV 40 V, 50 V, 50 Hz Risted agentical victoria (AC-4, 500 V, 50 Hz Sele inclusion Special purpose rating of definite purpose rating Special purpose rating of definite purpose rating Special purpose rating of definite purpose rating Short-circuit rating Short-circuit rating Short-circuit rating Short-circuit rating Short-circuit rating Short-circuit current rating floods ratingly Short-circuit current rating floods at 460 V) Short-circuit protection rating floods at 460 V) Short-circuit protection rating floods at 460 V) Short-circuit protection rating floods at 460 V		82 kW
Finance operational prever at AC4 -500 V. 50 Hz Finance operational prever at AC4 -500 V. 50 Hz Finance operational prever at AC4 -500 Finance may be according to the property of the AC4 -100 V. 50 Hz Finance operational prever at AC4 -100 V. 50 Hz Finance operational p	Rated operational power at AC-4, 415 V, 50 Hz	142 kW
Read operational power at AG 4, 60,000 V, 50 Hz Read operational voltage (Fig. 14 AC - max Read operational vol	Rated operational power at AC-4, 440 V, 50 Hz	150 kW
Reside operational power at AC = 1000 V, 20 1/2 Reside operational power at AC = 1,000 V, 20 1/2 Safe is footherd Special purpose rating of definite purpose rating 20 1/2 A L L M A 60 V 90 1/2 - 3-30 L L L L L L L L L L L L L L L L L L L	Rated operational power at AC-4, 500 V, 50 Hz	170 kW
Rated operational power at AC-4, 1900 V. 30 Hz Selected purposes rating of definite purposes rating Special purposes rating of definite purposes rating 200 A. 18-0 400 V. 60 Hz Sp., 10,0000 cycles acc. to 10. 1965, UUCSA) 200 A. 18-0 400 V. 60 Hz Sp., 10,0000 cycles acc. to 10. 1965, UUCSA) 200 A. 18-0 400 V. 60 Hz Sp., 10,0000 cycles acc. to 10. 1965, UUCSA) 200 A. 18-0 400 V. 60 Hz Sp., 10,0000 cycles acc. to 10. 1965, UUCSA) 200 A. 18-0 400 V. 60 Hz Sp., 10,0000 cycles acc. to 10. 1965, UUCSA) 200 A. 18-0 400 V. 60 Hz Sp., 10,0000 cycles acc. to 10. 1965, UUCSA) 200 A. 18-0 A. 18-0 50 UUCSA) 200 A. 18-0 A. 18-0 SCR UUCSA) 200 A. 18-0 A. 18-0 SCR UUCSA) 201 A. 18-0 A. 18-0 A. 18-0 SCR UUCSA) 202 A. 18-0 A. 18-	Rated operational power at AC-4, 660/690 V, 50 Hz	137 kW
Sales isolation \$ packed purpose rating of definite purpose rating \$ packed purpose \$ packed purpose	Rated operational voltage (Ue) at AC - max	1000 V
Special purpose rating of defining purpose rating 200.4. TIAL 600 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800 V0 IN 12-54, 10000 cycles acc. to UL 1955, (IUCSA) 300.4. FAL 800	Rated operational power at AC-4, 1000 V, 50 Hz	108 kW
1900 A, LPA AGRI VO NH 2-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC-SSA 30A A, PLA NBO V NH 3-5th 100,000 prices acre to 10 H596, IUC	Safe isolation	1000 V AC, Between coil and contacts, According to EN 61140
Shart-circuit current rating flash at 480 VI Shart-circuit current rating fligh fault at 480 VI Shart-circuit protection rating flype 1 coordination at 1000 V Shart-circuit protection rating flype 1 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V Shart-circuit protection rating flype 2 coordination at 400 V 315 A gG/gt Conventional thermal current th Conventional thermal current th 3 (-pole, enclosed) Conventional thermal current th 5 (-pole, open) Switching capacity (notalizery contacts, general use) Switching capacity (notalizery contacts, general use) Behavior in marginal and transitional conditions Magnet system Behavior in marginal and transitional conditions Drop-out vallage	Special purpose rating of definite purpose rating	1800 A, LRA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 300 A, FLA 600 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Short-circuit current rating (high fault at 480 V) Short-circuit protection rating (hype 1 coordination) at 1000 V Short-circuit protection rating (hype 1 coordination) at 1000 V Short-circuit protection rating (hype 1 coordination) at 400 V Short-circuit protection rating (hype 2 coordination) at 400 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-circuit protection rating (hype 2 coordination) at 1000 V Short-c	Short-circuit rating	
18 IA.F. IRAS. SCOR (IUL/CSA) 700 A. Cliss L. IRAS. FLOSS COST (IUL/CSA) 700 A. Cliss L. IRAS. FLOSS COST (IUL/CSA) 700 A. Cliss L. IRAS. A. Cliss S. LIRAS. A. Cliss S. Cliss S		600 A, max. CB, SCCR (UL/CSA) 18 kA, SCCR (UL/CSA)
18 A, CB, SCER (ULCSA) 18 A, Prises, SCER (ULCSA) 18 A BOO, A, max. CB, SCER (ULCSA) 18 A BOO, A, max. CB, SCER (ULCSA) 18 A BOO, A, max. SCER (ULCSA) 18 A BOO, A, Georgia 18 A BOO		18 kA, Fuse, SCCR (UL/CSA) 700 A, Class L, max. Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 700 A, Class L/450 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 480 V Short-circuit protection rating (type 2 coordination) at 690 V Short-circuit protection rating (type 2 coordination) at 1800 V Short-circuit protection rating (type 2 coordination) at 1800 V Short-circuit protection rating (type 2 coordination) at 480 V Short-circuit protection rating (type 2 coordination) at 480 V Short-circuit protection rating (type 2 coordination) at 480 V Short-circuit protection rating (type 2 coordination) at 480 V Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (main contacts, general use) Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) Saling - Pick-up phase (0.7 × Uc min - 1.15 × Uc max): Contactor switches on with contactor saling - Voltage drops (0.2 - 0.6 × Uc min) - 11 ms: Drop-out of the contactor saling - Voltage drops (0.2 - 0.6 × Uc min) - 10 ms: Drop-out of the contactor saling - Voltage drops (0.2 - 0.6 × Uc min) - 10 ms: Drop-out of the contactor saling - Pick-up phase (0 - 0.7 × Uc min) - 10 ms: Drop-out of the contactor saling - Voltage drops (0.2 - 0.6 × Uc min) - 10 ms: Drop-out of the contactor saling - Voltage drops (0.2 - 0.6 × Uc min) - 10 ms: Drop-out of the contactor saling - Voltage drops (0.2 - 0.6 × Uc min) - 10 ms: Drop-out of the contactor saling	Short-circuit current rating (high fault at 600 V)	18 kA, CB, SCCR (UL/CSA) 18 kA, Fuse, SCCR (UL/CSA) 600 A, max. CB, SCCR (UL/CSA) 700 A, Class L/450 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 899 V Short-circuit protection rating (type 2 coordination) at 1000 V Short-circuit protection rating (type 2 coordination) at 890 V Short-circuit protection rating (type 2 coordination) at 890 V Short-circuit protection rating (type 2 coordination) at 890 V Short-circuit protection rating (type 2 coordination) at 890 V Short-circuit protection rating (type 2 coordination) at 890 V Short-circuit protection rating (type 2 coordination) at 890 V Conventional thermal current tith (3-pole, enclosed) Conventional thermal current ith (3-pole, enclosed) Conventional thermal current ith at 55°C (3-pole, open) 418 A Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (main contacts, general use) Sw	Short-circuit protection rating (type 1 coordination) at 1000 V	200 A gG/gL
Short-circuit protection rating (type 2 coordination) at 1000 V Short-circuit protection rating (type 2 coordination) at 400 V Short-circuit protection rating (type 2 coordination) at 690 V Short-circuit protection at 690 V Short-circuit protection rating (type 2 coordination) at 690 V Short-circuit protection at 690 V Short-circui	Short-circuit protection rating (type 1 coordination) at 400 V	500 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V Short-circuit protection rating (type 2 coordination) at 690 V Conventional thermal current ith Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (2-pole, enclosed) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith of main contacts (1-pole, open) Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, pilot duty) A800, AC operated (UL/CSA) Switching capacity (auxiliary contacts, pilot duty) A800, AC operated (UL/CSA) Pool, DC operated (UL/CSA) Sealing - Voltage drops (0.2 - 0.8 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.8 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.8 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage of 0.0 7. x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage of 0.0 7. x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage of 0.0 7. x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage of 0.0 7. x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage of 0.0 7. x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage of 0.0 ms: Time is bridged successfully Sealing - Voltage	Short-circuit protection rating (type 1 coordination) at 690 V	400 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V Conventional thermal current ith Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (3-pole, enclosed) Conventional thermal current ith at 55°C (3-pole, open) 418 A Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, pilot duty) A800, AC operated (IUL/CSA) 1 A, 250 V DC, (IUL/CSA) 1 A, 250 V DC, (IUL/CSA) Magnet system Behavior in marginal and transitional conditions Sealing - Voltage drops (0.2 - 0.6 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage or on 5 voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage or on 5 voltage drops (0.2 - 0.6 x Uc min 1 in 8- Drop-out of the contactor Sealing - Voltage or on 5 v	Short-circuit protection rating (type 2 coordination) at 1000 V	160 A gG/gL
Conventional thermal current ith Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (3-pole, enclosed) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith at 55°C (3-pole, open) Switching capacity Switching capacity Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, pilot duty) A800, AC operated (UL/CSA) A800, AC operated (UL/CSA) P300, DC operated (UL/CSA) Magnet system Behavior in marginal and transitional conditions Sealing - Victory phase (0.7 x Uc min - 1.15 x Uc max): Contactor switched on Sealing - Violtage drops (0.2 - 0.8 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Violtage drops (0.2 - 0.8 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Violtage interruptions 0 - 0.2 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage interruptions 0 - 0.2 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged successfully Sealing - Violtage drops (0.2 - 0.8 x Uc min is 10 ms: Time is bridged suc	Short-circuit protection rating (type 2 coordination) at 400 V	400 A gG/gL
Conventional thermal current ith (1-pole, enclosed) Conventional thermal current ith (3-pole, enclosed) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, peneral use) Switching capacity (auxiliary contacts, pilot duty) Magnet system Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.15 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.15 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.6 - 0.7 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.2 - 0.8 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.2 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.2 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.2 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.2 x Uc min - 1.10 x Uc max): Donotactor General switched on Sealing - Voltage drops (0.2 x Uc min - 1.10 x Uc max): Donotactor General switched on S	Short-circuit protection rating (type 2 coordination) at 690 V	315 A gG/gL
Conventional thermal current ith (3-pole, enclosed) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, pilot duty) A600, AC operated (UL/CSA) Switching capacity (auxiliary contacts, pilot duty) A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min) > 10 ms:	Conventional thermal current Ith	
Conventional thermal current ith at 55°C (3-pole, open) Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, general use) Switching capacity (auxiliary contacts, pilot duty) A600, AC operated (UL/CSA) A600, AC operated (UL/CSA) A600, AC operated (UL/CSA) A600, AC operated (UL/CSA) Behavior in marginal and transitional conditions Saling - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Saling - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Saling - Voltage interruptions 0 - 0.2 x Uc min: Contactor remains switched on Saling - Voltage interruptions 0 - 0.2 x Uc min: 2 to max): Contactor remains switched on Saling - Voltage interruptions 0 - 0.2 x Uc min s 10 ms: Torpo-out of the contactor Saling - Voltage interruptions 0 - 0.2 x Uc min s 10 ms: Torpo-out of the contactor Saling - Voltage interruptions 0 - 0.2 x Uc min s 10 ms: Time is bridged successfully Drop-out voltage Drop-out voltage AC operated: 0.2 x US max - 0.6 x US min, AC operated 0.2 x US max - 0.6 x US min, DC operated Duty factor 100 % Pick-up voltage 0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us Power consumption	Conventional thermal current ith (1-pole, enclosed)	788 A
Conventional thermal current ith of main contacts (1-pole, open) Switching capacity Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) 15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) Switching capacity (auxiliary contacts, pilot duty) A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA) Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) - 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min): Contactor remains switched on Sealing - Voltage drops (0.2 - 0.6 x Uc min): Contactor remains switched on Sealing - Pick-up phase (0.7 x Uc min): Contactor remains switched on Sealing - Voltage drops (0.2 - 0.6 x Uc min): Contactor remains switched on Sealing - Voltage interruptions (0.2 x Uc min): Contactor remains switched on Sealing - Voltage interruptions (0.2 x Uc min): Contactor remains switched on Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage interruptions (0.2 x Uc min): Since is bridged successfully Sealing - Voltage - Since is bridged successfully Sealing - Voltage - Since is bridged successfully Sealing - Voltage - Since is bridged successfully Seali	Conventional thermal current ith (3-pole, enclosed)	315 A
Switching capacity Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) 15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) Switching capacity (auxiliary contacts, pilot duty) A600, AC operated (UL/CSA) P300, DC operated (UL/CSA) P300, DC operated (UL/CSA) Magnet system Behavior in marginal and transitional conditions Sealing - Vick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.8 - 0.7 x Uc min > 10 ms: Drop-out of the contactor Sealing - Voltage interruptions 0 - 0.2 x Uc min > 10 ms: Drop-out of the contactor Sealing - Voltage interruptions 0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage drops (0.8 - 0.7 x Uc min - 1.15 x Uc max): Contactor remains switched on Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min > 10 ms: Time is bridged successfully Sea	Conventional thermal current ith at 55°C (3-pole, open)	418 A
Switching capacity (main contacts, general use) Switching capacity (auxiliary contacts, general use) 15 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA) A600, AC operated (UL/CSA) A600, AC operated (UL/CSA) Magnet system Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage interruptions 0 - 0.2 x Uc minin > 10 ms: Drop-out of the contactor Sealing - Pick-up phase (0.7 x Uc min: Contactor remains switched on Sealing - Voltage interruptions 0 - 0.2 x Uc minin > 10 ms: Drop-out of the contactor Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Pick-up phase (0 - 0.7 x Uc min: 12 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time is bridged Sealing - Voltage interruptions (0 - 0.2 x Uc minin > 10 ms: Time i	Conventional thermal current ith of main contacts (1-pole, open)	1000 A
Switching capacity (auxiliary contacts, general use) 15 A, 800 V AC, (UL/CSA) A600, AC operated (UL/CSA) A600, AC operated (UL/CSA) Magnet system Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor remains switched on Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Pick-up phase (0 - 0.7 x Uc min ≤12 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤12 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min, AC operated 0.2 x US max - 0.6 x US min, AC operated 0.2 x US max - 0.6 x US min, DC operated 0.2 x US max - 0.6 x US m	Switching capacity	
Switching capacity (auxiliary contacts, pilot duty) A600, AC operated (UL/CSA) Magnet system Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage - 0.1 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage - 0.1 x Uc min) > 10 ms: Time is bridged successfully Sealing - Voltage - 0.1	Switching capacity (main contacts, general use)	350 A, Maximum motor rating (UL/CSA)
Magnet system Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor does not switch on Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Voltage drops (0.2 - 0.6 x Uc min ≤12 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Drop-out voltage AC operated: 0.2 x US max - 0.6 x US min, AC operated 0.2 x US max - 0.6 x US min, DC operated Duty factor 100 % Pick-up voltage 0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us Power consumption 110 kW		1 A, 250 V DC, (UL/CSA)
Magnet system Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor remains switched on Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Voltage drops (0.2 - 0.6 x Uc min : 20 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Us max - 0.6 x Us min, AC operated 0.2 x Us max - 0.6 x Us min, DC operated 0.2 x Us max - 0.6 x Us	Switching capacity (auxiliary contacts, pilot duty)	
Behavior in marginal and transitional conditions Sealing - Pick-up phase (0.7 x Uc min - 1.15 x Uc max): Contactor switches on with certainty Sealing - Voltage drops (0.2 - 0.6 x Uc min) > 12 ms: Drop-out of the contactor Sealing - Voltage drops (0.6 - 0.7 x Uc min: Contactor remains switched on Sealing - Voltage interruptions 0 - 0.2 x Uc min) > 10 ms: Drop-out of the contactor Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor remains switched on Sealing - Excess voltage (1.15 - 1.3 x Uc max): Contactor remains switched on Sealing - Pick-up phase (0 - 0.7 x Uc min: Contactor does not switch on Sealing - Voltage drops (0.2 - 0.6 x Uc min ≤ 12 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x Uc min ≤ 10 ms: Time is bridged successfully Sealing - Voltage interruptions (0 - 0.2 x US max - 0.6 x US min, AC operated Drop-out voltage AC operated: 0.2 x US max - 0.6 x US min, AC operated Duty factor 100 % Pick-up voltage 0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us Power consumption 110 kW	Magnet system	
Drop-out voltage AC operated: 0.2 x US max - 0.6 x US min, AC operated 0.2 x US max - 0.6 x US min, DC operated 100 % Pick-up voltage 0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us 110 kW		certainty Sealing - Voltage drops $(0.2 - 0.6 \times Uc \text{ min}) > 12 \text{ ms}$: Drop-out of the contactor Sealing - Voltage drops $(0.6 - 0.7 \times Uc \text{ min}) > 12 \text{ ms}$: Drop-out of the contactor Sealing - Voltage interruptions $0 - 0.2 \times Uc \text{ min}) > 10 \text{ ms}$: Drop-out of the contactor Sealing - Excess voltage $(1.15 - 1.3 \times Uc \text{ max})$: Contactor remains switched on Sealing - Pick-up phase $(0 - 0.7 \times Uc \text{ min}) < 10 \text{ ms}$: Time is bridged successfully Sealing - Voltage drops $(0.2 - 0.6 \times Uc \text{ min} \le 12 \text{ ms})$: Time is bridged
Pick-up voltage 0.7 - 1.15 V AC x Us 0.7 - 1.15 V DC x Us Power consumption 110 kW	Drop-out voltage	AC operated: 0.2 x US max - 0.6 x US min, AC operated
0.7 - 1.15 V DC x Us Power consumption 110 kW	Duty factor	100 %
	Pick-up voltage	
0 11 6 11 1 2007	Power consumption	110 kW Control transformer with uk < 6%

Power consumption, pick-up, 50 Hz	250 W, Pull-in power, Coil in a cold state and 1.0 x Us 380 VA, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, pick-up, 60 Hz	250 W, Pull-in power, Coil in a cold state and 1.0 x Us 380 VA, Pull-in power, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 50 Hz	5.5 W, Coil in a cold state and 1.0 x Us 10.5 VA, Coil in a cold state and 1.0 x Us
Power consumption, sealing, 60 Hz	10.5 VA, Coil in a cold state and 1.0 x Us 5.5 W, Coil in a cold state and 1.0 x Us
Rated control supply voltage (Us) at AC, 50 Hz - min	110 V
Rated control supply voltage (Us) at AC, 50 Hz - max	250 V
Rated control supply voltage (Us) at AC, 60 Hz - min	110 V
Rated control supply voltage (Us) at AC, 60 Hz - max	250 V
Rated control supply voltage (Us) at DC - min	110 V
Rated control supply voltage (Us) at DC - max	250 V
Switching time (AC operated, make contacts, closing delay) - max	100 ms
Switching time (AC operated, make contacts, opening delay) - max	110 ms
Motor rating	
Assigned motor power at 200/208 V, 60 Hz, 3-phase	100 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	125 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	250 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	300 HP
Contacts	
	2
Number of auxiliary contacts (normally closed contacts)	
Number of auxiliary contacts (normally open contacts)	2
Number of contacts (normally closed contacts)	2
Number of contacts (normally open contacts)	2
Design verification	
Equipment heat dissipation, current-dependent Pvid	21 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	7 W
Rated operational current for specified heat dissipation (In)	300 A
Static heat dissipation, non-current-dependent Pvs	5.5 W
10.2.2 Corrosion resistance	Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures	Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat	Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects	Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation	Meets the product standard's requirements.
10.2.5 Lifting	Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact	Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions	Meets the product standard's requirements.
10.3 Degree of protection of assemblies	Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances	Meets the product standard's requirements.
10.5 Protection against electric shock	Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components	Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections	Is the panel builder's responsibility.
10.8 Connections for external conductors	Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength	Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage	Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material	Is the panel builder's responsibility.
10.10 Temperature rise	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must be observed.

Technical data ETIM 9.0

Toolinical data ETIM 5.0					
Low-voltage industrial components (EG000017) / Power contactor, AC switching (EC000066)					
Electric engineering, automation, process control engineering / Low-voltage switch technology / Contactor (LV) / Power contactor, AC switching (ecl@ss13-27-37-10-03 [AAB718020])					
Rated control supply voltage AC 50 Hz		V	110 - 250		
Rated control supply voltage AC 60 Hz		V	110 - 250		
Rated control supply voltage DC		V	110 - 250		
Voltage type for actuating			AC/DC		
Number of normally closed contacts as main contact			0		
Number of normally open contacts as main contact			3		
Type of electrical connection of main circuit			Rail connection		
Operating voltage AC 50 Hz		V	110 - 250		
Operating voltage AC 60 Hz		V	110 - 250		
Rated operation current le at AC-1, 400 V		Α	490		
Rated operation current le at AC-3, 400 V		Α	300		
Rated operation power at AC-3, 400 V		kW	160		
Rated operation current le at AC-4, 400 V		Α	240		
Rated operation power at AC-4, 400 V		kW	132		
Rated operation power NEMA		kW	186		
Number of auxiliary contacts as normally open contact			2		
Number of auxiliary contacts as normally closed contact			2		
Modular version			No		
Width		mm	140		
Height		mm	189		
Depth		mm	208		