DATASHEET - DILMC7-10(*VDC)

Contactor, 3 pole, 380 V 400 V 3 kW, 1 N/O, *V DC, DC operation, Springloaded terminals



Part no.

DILMC7-10(*VDC) 277409

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Preduct Lengtwörsph Image:	Product name	Eaton Moeller® series DILM contactor
Preduct height Image:	Part no.	DILMC7-10(*VDC)
Product winght Ballimete Confections D28 Magnam Confections Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Case Not 2011 00, 2011 44 Product View Gal Ca	Product Length/Depth	75 millimetre
Product weight CSA C22 No. Spit A 11 4 Grafications GSA C22 No. Spit A 11 4 Volt Sett Grafications Poduct Yademane DIA Poduct Sub Type DIA Catalog Nortes Contacts according in EN 5002 Foldures & Functions Contacts according in EN 5002 Foldures (Scatter Meters Contacts according in EN 5002 Policitation Contacts according in EN 5002 Application Contacts according in EN 5002 Application Contacts according in EN 5002 Operating Forgenes Contacts according in EN 5002 Application Contacts according in EN 5002	Product height	68 millimetre
Cardications CSA-222 No.5007A-1-14 CSA-222 No.5007A-1-14 CSA-222 No.5007A-1-14 CSA-222 No.5007A-1-14 CSA-222 No.5007A-1-14 CSA-222 No.5007A-11-03 CSA-222 No.5007A-1-14 Predict Trademam Discorption No NUX Predict Son Type Contractor Predict Trademam None Contractor None Contractor None Contractor None Contractors Nones Contractors Son Type Predict Trademam Contractors For Motors Depres of protection Ford Predict Trademam Contractors For Motors Depres of protection Ford Predict Trademam Contractors For Motors Depres of protection Ford Predict Trademam Ford Predict Trademam Ford	Product width	45 millimetre
Preduct Tudesame Preduct Tudesame DUA Start A1, NA, 221-64, UL, File No. 22006 Preduct Tudesame DUA Start A1, UL, File No. 2006 Preduct Tudesame DUA Start A1, UL, UL, Start AN, DUX X, UL	Product weight	0.286 kilogram
Product Syspe Contactor Product Sub Type None Catales Notes None Catales Notes None Features & Functions Variator suppressor circuit Fenter With: Variator suppressor circuit General information Image: State		CE CSA Class No.: 2411-03, 3211-04 UL File No.: E29096 CSA VDE 0660 IEC/EN 60947 UL 60947-4-1 UL UL Category Control No.: NLDX IEC/EN 60947-4-1 CSA File No.: 012528
Product Sub Type None Catalog Noiss Centacts according to EN 50012 Features & Functions Variator suppressor circuit Future with: Variator suppressor circuit Centracting to EN 50012 Variator suppressor circuit Repertation Contactors for Motors Application Contactors for Motors Degree of protection Formers information Operating Trequency Contactors for Motors Operating Trequency Contactors for Motors Operating Trequency Contactors for Motors Product catagory Former form from (EN 50224) Protection Contactors Protection Southable for Resistance per pole As motors with efficiency class IE3 Voltage type Asing Contactors Ambient Conditions, mechanical Contactors Ambient Conditions, mechanical Southable for Shock resistance Southable shock of hand proof, Protection against direct contact when actuated from from (EN 50224) Notage type Asin motors with efficiency class IE3 Abient Conditions, mechanical Southable for Shock resistance Southable shock for manable indect		
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Fetures & Functions Image: Set of the set	Product Sub Type	None
Fitted with: Image: Information Image: Information Image: Information Application Image: Image	Catalog Notes	Contacts according to EN 50012
General information Image: set of protection Contactors for Motors Degree of protection P20 Frame size FS1 Lifespan, mechanical 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) Overvoltage category 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) Product category 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) Product category 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) 0000 mechanical Operations (0C operated) Rated impulse withstand voltage (UImp) 0 0 0 0000 mechanical Operations (0C operated) 0 Suitable for 0000 mechanical Operations (0C operated) 0000 mechanical Status (0000 VAC A so motors with efficiency class IE3 0 Voltage type 0	Features & Functions	
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Degree of protection P20 Frame size FS1 Lifespan, mechanical 0,000,000 Operations (DC operated) Operating frequency 9000 mechanical Operations(h (DC operated) Overvohage category III Polition degree 3 Product category Files and back-of-hand proof, Protection against direct contact when actuated from from f(EN S0274) Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 45 m0 Suitable for Also mdto with ficinery class E3 Utilization category Contactors Voltage type Construction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, plugging, reversing, inching Voltage type Dc Anbient conditions, mechanical Dc Shock resistance Sign V/ auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance Sign V/ auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, when tabletop-mounted, Half-sinusoidal shock 10 ms Sign V/ auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, when tabletop-mounted, Half-sinusoidal shock 10 ms Sign V/ auxiliary contact, Me	General information	
Frame size F31 Lifespen, mechanical 10,000,000 Operations (IC operated) Operating frequency 9000 mechanical Operations/h (IC operated) Overvoltage category III Pollution degree 3 Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 8000 V AC Suitable for 8000 V AC Voltage type Act : Non-inductive sub efficiency class IE3 Vultization category Act : Non-inductive or slightly inductive loads, resistance furnaces Act : Normal AC induction motors: starting, switch off during running AC + Normal AC induction motors: starting, switch off during running AC + Normal AC induction motors: starting, switch off during running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC + Normal AC induction motors: starting, switch off Uuring running AC	Application	Contactors for Motors
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Operating frequency 000 mechanical Operations/h (DC operated) Overvoltage category III Pollution degree 3 Product category Contactors Protection Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN S0274) Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 45 mG Suitable for Also motors with efficiency class IE3 Utilization category Contactors Voltage type De Ambient conditions, mechanical Contact Shock resistance 5 g. N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g. N/O amine contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Stage type De Ambient conditions, mechanical S g. N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Stage type S g. N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Stage type S g. N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Stage type S g. N/C auxiliary contact, Mechanical,	Frame size	FS1
Overvoltage category III Pollution degree 3 Product category Contactors Protection Finger and back-of-hand proof, Protection against direct contact when actuated from from tEN 502741 Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 8000 V AC Suitable for Also motors with efficiency class IE3 Utilization category AC-1: Non-inductive or slightly inductive loads, resistance furmaces AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching Voltage type C Ambient conditions, mechanical 5.7 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S.7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S.7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S.7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S.7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms	Lifespan, mechanical	10,000,000 Operations (DC operated)
Pollution degree 3 Product category Contactors Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 4.6 mQ Suitable for Also motors with efficiency class IE3 Utilization category Also motors with efficiency class IE3 Voltage type De Ambient conditions, mechanical De Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance S g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance<	Operating frequency	9000 mechanical Operations/h (DC operated)
Product category Contactors Protection Finger and back-of-hand proof, Protection against direct contact when actuated from from (EN 50274) Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 46 mD Suitable for Also motors with efficiency class IE3 Utilization category AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-3: Normal AC induction motors: starting, withof fd uring running AC-4: Normal AC induction motors: starting, sinching unaning ac AC-4: Normal AC induction motors: starting, sinching unaning ac AC-4: Normal AC induction motors: starting, sinching unaning ac AC-4: Normal AC induction motors: starting, sinching unaning ac AC-4: Normal AC induction motors: starting, with efficiency class IE3 Ambient conditions, mechanical DC Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3-4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3-4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3-4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 3-4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according	Overvoltage category	
Protection Finger and back-of-hand proof, Protection against direct contact when actuated from front (EN 50274) Rated impulse withstand voltage (Uimp) 8000 V AC Resistance per pole 46 m0 Suitable for Also motors with efficiency class IE3 Utilization category AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-1: Non-inductive or slightly inductive loads, resistance furnaces AC-1: Non-inductive or slightly inductive for slig	Pollution degree	3
From from (EN 50274)Rated impulse withstand voltage (Uimp)Resistance per poleSuitable forUtilization categoryUtilization categoryVoltage typeAnbient conditions, mechanicalShock resistanceShock resistanc	Product category	Contactors
Resistance per pole4.6 mQSuitable forAlso motors with efficiency class IE3Utilization categoryAC-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, pulgging, reversing, inching AC-4: Normal AC induction motors: starting, pulgeing, reversing, inching AC-4: Normal AC induction motors	Protection	
Suitable forAlso motors with efficiency class IE3Utilization categoryAC-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 AC-4: N	Rated impulse withstand voltage (Uimp)	8000 V AC
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 DC Ambient conditions, mechanical 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance Sinusoidal shock 10 ms Sinusoidal shock 10 ms Sinusoidal shock 10 ms <td>Resistance per pole</td> <td>4.6 mΩ</td>	Resistance per pole	4.6 mΩ
Voltage type AC-3: Normal AC induction motors: starting, switch off during running AC-4: Normal AC induction motors: starting, plugging, reversing, inching Ambient conditions, mechanical DC Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance 3 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Shock resistance Sho	Suitable for	Also motors with efficiency class IE3
Ambient conditions, mechanicalImage: Since sistanceSince sistanceSince sistanceSince sistance since sinc	Utilization category	AC-3: Normal AC induction motors: starting, switch off during running
Shock resistanceShock resistanceSubscienceSubs	Voltage type	DC
Sinusoidal shock 10 ms5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 msClimatic environmental conditionsImage: Climatic environmental conditionsImage: Climatic environmental conditions	Ambient conditions, mechanical	
	Shock resistance	sinusoidal shock 10 ms 5.7 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms 7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-
Altitude Max. 2000 m	Climatic environmental conditions	
	Altitude	Max. 2000 m

Ambient encodies to many sture min	25.90
Ambient operating temperature - min	-25 °C
Ambient operating temperature - max	60 °C
Ambient operating temperature (enclosed) - min	25 °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
Electro magnetic compatibility	
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminal capacities	
Terminal capacity (flexible with ferrule)	1 x (0.75 - 1.5) mm ² 2 x (0.75 - 1.5) mm ²
Terminal capacity (flexible)	1 x (0.75 - 2.5) mm ² 2 x (0.75 - 2.5) mm ²
Terminal capacity (solid)	2 x (0.75 - 2.5) mm ² 1 x (0.75 - 2.5) mm ²
Terminal capacity (solid/stranded AWG)	18 - 14
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	10 mm
Screwdriver size	3.5 mm, Spring-loaded terminals
Electrical rating	
Rated breaking capacity at 220/230 V	70 A
Rated breaking capacity at 380/400 V	70 A
Rated breaking capacity at 500 V	50 A
Rated breaking capacity at 660/690 V	40 A
Rated operational current (Ie) at AC-1, 380 V, 400 V, 415 V	22 A
Rated operational current (Ie) at AC-3, 220 V, 230 V, 240 V	7 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	7 A
Rated operational current (Ie) at AC-3, 440 V	7 A
Rated operational current (Ie) at AC-3, 500 V	5 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	4 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	5 A
Rated operational current (Ie) at AC-4, 440 V	5 A
Rated operational current (Ie) at AC-4, 500 V	4.5 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	4 A
Rated operational current (Ie) at DC-1, 60 V	20 A
Rated operational current (Ie) at DC-1, 110 V	20 A
Rated operational current (Ie) at DC-1, 220 V	15 A
Rated insulation voltage (Ui)	690 V
Rated making capacity up to 690 V (cos phi to IEC/EN 60947)	112 A
Rated operational power at AC-3, 240 V, 50 Hz	2.2 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	3 kW
Rated operational power at AC-3, 415 V, 50 Hz	4 kW
Rated operational power at AC-3, 440 V, 50 Hz	4.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	3.5 kW
Rated operational power at AC-3, 690 V, 50 Hz	3.5 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	1 kW
Rated operational power at AC-4, 240 V, 50 Hz	1.5 kW
Rated operational power at AC-4, 415 V, 50 Hz	2.3 kW
Rated operational power at AC-4, 440 V, 50 Hz	2.4 kW
Rated operational power at AC-4, 500 V, 50 Hz	2.5 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	2.9 kW
Rated operational voltage (Ue) at AC - max	690 V
Short-circuit rating	

Short-circuit current rating (basic rating)	45 A, max. Fuse, SCCR (UL/CSA) 60 A, max. CB, SCCR (UL/CSA) 5 kA, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	30/100 kA, Fuse, SCCR (UL/CSA) 65 kA, CB, SCCR (UL/CSA) 25 A, Class RK5/ 20 A Class J, max. Fuse, SCCR (UL/CSA) 16 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	30/100 kA, Fuse, SCCR (UL/CSA) 25 A, Class RK5/20 A, Class J, max. Fuse, SCCR (UL/CSA)
Short-circuit protection rating (type 1 coordination) at 400 V	35 A gG/gL
Short-circuit protection rating (type 1 coordination) at 690 V	20 A gG/gL
Short-circuit protection rating (type 2 coordination) at 400 V	20 A gG/gL
Short-circuit protection rating (type 2 coordination) at 690 V	16 A gG/gL
Conventional thermal current Ith	
Conventional thermal current ith (1-pole, enclosed)	45 A
Conventional thermal current ith (3-pole, enclosed)	18 A
Conventional thermal current ith at 55°C (3-pole, open)	21 A
Conventional thermal current ith at 60°C (3-pole, open)	20 A
Conventional thermal current ith of main contacts (1-pole, open)	50 A
Switching capacity	
Switching capacity (main contacts, general use)	20 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	1 A, 250 V DC, (UL/CSA) 10 A, 600 V AC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	A600, AC operated (UL/CSA) P300, DC operated (UL/CSA)
Magnet system	
Arcing time	10 ms
Drop-out voltage	At least smoothed two-phase bridge rectifier or three-phase rectifier 0.6 - 0.15 x UC, DC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.1 V DC x Uc 0.85 - 1.1 V DC x Uc (only with auxiliary contact module with 3 or more N/C contacts)
Power consumption (pick-up) at DC	3 W
Power consumption (sealing) at DC	3 W
Rated control supply voltage (Us) at AC, 50 Hz - min	0 V
Rated control supply voltage (Us) at AC, 50 Hz - max	0 V
Rated control supply voltage (Us) at AC, 60 Hz - min	0 V
Rated control supply voltage (Us) at AC, 60 Hz - max	0 V
Rated control supply voltage (Us) at DC - min	12 V
Rated control supply voltage (Us) at DC - max	250 V
Switching time (DC operated, make contacts, closing delay) - max	31 ms
Switching time (DC operated, make contacts, opening delay) - max	12 ms
Motor rating	
Assigned motor power at 115/120 V, 60 Hz, 1-phase	0.25 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	1.5 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	2 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	5 HP
Communication	
Connection	Spring-loaded terminals
Connection to SmartWire-DT	No
Contacts	
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	1
Safety	

	400 V AC, Between the contacts, According to EN 61140
Special purpose ratings	
Special purpose rating of ballast electrical discharge lamps	12 A (600V 60Hz 3phase, 347V 60Hz 1phase) 12 A (480V 60Hz 3phase, 277V 60Hz 1phase)
Special purpose rating of definite purpose rating	42 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 7 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Special purpose rating of elevator control	0.75 HP, 200 V 60 Hz 3-ph, (UL/CSA) 3.7 A, 200 V 60 Hz 3-ph, (UL/CSA) 2 HP, 480 V 60 Hz 3-ph, (UL/CSA) 3.4 A, 480 V 60 Hz 3-ph, (UL/CSA) 1.5 HP, 240 V 60 Hz 3-ph, (UL/CSA) 3 HP, 600 V 60 Hz 3-ph, (UL/CSA) 3.9 A, 600 V 60 Hz 3-ph, (UL/CSA) 6 A, 240 V 60 Hz 3-ph, (UL/CSA)
Special purpose rating of refrigeration control (CSA only)	60 A, LRA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 480 V 60 Hz 3phase; (CSA) 10 A, FLA 600 V 60 Hz 3phase; (CSA) 60 A, LRA 600 V 60 Hz 3phase; (CSA)
Special purpose rating of resistance air heating	12 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 12 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA)
Special purpose rating of tungsten incandescent lamps	14 A, 600 V 60 Hz 3phase, 347 V 60 Hz 1phase, (UL/CSA) 14 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA)
Design verification	
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.1 W
Rated operational current for specified heat dissipation (In)	7 A
Static heat dissipation, non-current-dependent Pvs	3 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 b observed.
10.12 Electromagnetic compatibility	Is the panel builder's responsibility. The specifications for the switchgear must b observed.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

Technical data ETIM 9.0

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	0 - 0			
Rated control supply voltage AC 60 Hz	V	0 - 0			
Rated control supply voltage DC	V	12 - 250			
Voltage type for actuating		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		Spring clamp connection
Operating voltage AC 50 Hz	V	24 - 690
Operating voltage AC 60 Hz	V	24 - 690
Rated operation current le at AC-1, 400 V	А	22
Rated operation current le at AC-3, 400 V	А	7
Rated operation power at AC-3, 400 V	kW	3
Rated operation current le at AC-4, 400 V	А	5
Rated operation power at AC-4, 400 V	kW	2.2
Rated operation power NEMA	kW	2.2
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Modular version		No
Width	mm	45
Height	mm	68
Depth	mm	75