## DATASHEET - DILM12-10(110V50HZ,120V60HZ)

Contactor, 3 pole, 380 V 400 V 5.5 kW, 1 N/O, 110 V 50 Hz, 120 V 60 Hz, AC operation, Screw terminals



Part no.	DILM12-10(110V50HZ,120V60HZ)
	276827
EL Number	4130320
(Norway)	

Positics tame Ebox Mailers series DUM contactor   Prair to: DUM/11/03474 (2004)   Positics taippt/Depth 9 000000000000000000000000000000000000		
EAA   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Preduct length (Erght)   Field anghU (Erght)   Field anghU (Erght)     Field anghU (Erght)   Field anghU (Erght)   Field anghU (Erght)     Field anghU (Erght)   Field anghU (Erght)   Field anghU (Erght)     Field an	Product name	Eaton Moeller® series DILM contactor
Product Length Degth   Product Length Degth     Product Height Component of the sector of the se	Part no.	DILM12-10(110V50HZ,120V60HZ)
Product height   86 millimere     Product width   68 millimere     Product fieldsons   0100 Million     Product Fieldsons   0100 Million     Product Single Si	EAN	4015082768270
Preduct with Similarite   Preduct wight B24 kingsam   Certifications Similarite   Description Similarite   Certifications Similarite   Preduct Xwight Similarite   Description Similarite   Description Similarite   Preduct Xwight Similarite   Digram of pretection Similarite   Preduct Xwight Similarite   Preduct Xwight	Product Length/Depth	75 millimetre
Product weight Cold Millingtam   Grafications SA His for: 01228 Chilling Ministry Millingtam SA SA His for: 01228 Chillingtam SA SA His for: 01228 Chillingtam SA SA His for: 01228 Chillingtam   Product Trefereame Cold Sa His for: 01228 Chillingtam SA SA His for: 01228 Chillingtam SA SA SA His for: 01228 Chillingtam   Product Trefereame DILM Cold Sa His for: 01238 Chillingtam SA SA SA HIS for: 000741   Product Type DILM Cold Sa His for: 01238 Chillingtam Cold Sa His for: 01238 Chillingtam   Application Dillingtam Cold Sa His for: 01238 Chillingtam Cold Sa His for: 01238 Chillingtam   Application Cold Sa His for: 01238 Field Sa His for: 01238 Chillingtam Cold Sa His for: 01238 Chillingtam   Operation frequency Cold Sa His for: 01238 Chillingtam Cold Sa His for: 01238 Chillingtam   Operation frequency Cold Sa His for: 01238 Chillingtam Cold Sa His for: 01238 Chillingtam   Product Catagory His for: 01238 Chillingtam Cold Sa His for: 01238 Chillingtam   Product Catagory Cold Cold Sa His for: 01238 Chillingtam Cold Cold Sa His for: 01238 Chillingtam   Product Catagory Cold Cold Cold Cold Cold Cold Cold Cold	Product height	68 millimetre
Cartifications   Cartifications   Cartifications     Product Trademame   Cartifications   None     Cartification   Cartifications   Cartifications     Product Trademame   Cartifications   Cartifications     Product Cartific	Product width	45 millimetre
SA File Ac. 19239     UL File Ac. 19239     UL File Ac. 19239     UL File Ac. 19209     UL File Ac. 19209     Product Todemano     Product Todemano     Product Todemano     Product Tope     Prod	Product weight	0.24 kilogram
Product Sub Type   Contactor     Product Sub Type   None     Bidbally Markeable   Yes     Application   Contactors for Motors     Application   P20     Prane size   P20000 Operations (AC operated)     Operating frequency   Bidbally Markeable     Overoutings category   III     Pollution degree   Si     Protection   Si     Protection   Si     Resistance per pole   Si     Sublable for   Ac2-4 Normal AC induction motors: starting, languing, severaing, inching AC-1-Normal AC induction motors: starting, severaing, inching aC-1-Normal AC induction motors: s	Certifications	CSA File No.: 012528 CE UL File No.: E29096 UL Category Control No.: NLDX VDE 0660 UL 60947-4-1 CSA-C22.2 No. 60947-4-1-14 UL CSA Class No.: 2411-03, 3211-04 IEC/EN 60947
Product Sub Type   None     Globably Marketable   Yes     Application   Contactors for Motors     Degree of protection   IP20     Frame size   ID000000 Dperations (AC operated)     Operating frequency   9000 mechanical Operations/h (AC operated)     Operating frequency   9000 mechanical Operations/h (AC operated)     Overvoitage category   III     Polution degree   Contactors for Motors     Protection   III     Polution degree   Contactors     Protection   Soft Contactors     Protection   Finge and back-of hand proof, Protection against direct contact whan actuated from from form (EN 9027A)     Rated impulse withstand voltage (Uimp)   8000 V AC     Resistance per pole   25     Suitable for   Also motors with efficiency class IE3     Voltage type   AC     Shock resistance   Top, NO auxiliary contact, Mechanical, according to IEC/EN 60088-2-27, Half-sinsubal shock 10 ms     Shock resistance   Top, NO auxiliary contact, Mechanical, according to IEC/EN 60088-2-27, Half-sinsubal shock 10 ms     Shock resistance   Top, NO auxiliary contact, Mechanical, according to IEC/EN 60088-2-27, Half-sinsubal shock 10 ms     Shock resistance <t< td=""><td>Product Tradename</td><td>DILM</td></t<>	Product Tradename	DILM
Bibbally Marketable   Yes     Application   Contactors for Motors     Degree of protection   P20     Frame size   50000000 perations (AC operated)     Urtespan, mechanical   0000000 perations (AC operated)     Operating frequency   9000 mechanical Operations/h (AC operated)     Oberouting a category   III     Pollution degree   3     Protection   Contactors     Rated impulse withstand voltage (Uimp)   2000 VAC     Resistance per pile   2000 VAC     Suitable for   Asio motors with efficiency class E3     Voltage type   Act-4: Normal AC induction motors: starting, pulsing, reversing, inching Act-1: Non-inductive or slightly inductive leads, resistance furnaces     Voltage type   Act-4: Normal AC induction motors: starting, pulsing, reversing, inching Act-1: Non-inductive or slightly inductive leads, resistance furnaces     Shock resistance   7 g, N/0 auxiliary contact, Mechanical, according to EC/EN 60088-2-27, Half-sinus/odd shock 10 ms     Shock resistance   3 g, N/0 auxiliary contact, Mechanical, according to EC/EN 60088-2-27, Wean tabusci shock 10 ms     Shock resistance   3 g, N/0 auxiliary contact, Mechanical, according to EC/EN 60088-2-27, Wean tabusci shock 10 ms     Shock resistance   3 g, N/0 auxiliary contact, Mechanical, according to EC/EN 6	Product Type	Contactor
Application   Contactors for Motors     Degree of protection   P20     Frame size   F31     Lifespan, mechanical   0000,000 Operations (AC operated)     Operating frequency   900 mechanical Operations (AC operated)     Overvoltage category   III     Pollution degree   3     Protection   Stote transform of EN 80274     Restance per pole   8000 V AC     Resistance per pole   8000 V AC     Resistance per pole   25     Suitable for   8000 V AC     Vultization category   Also motors with efficiency class IE3     Vultization category   Also motors with efficiency class IE3     Suitable for   Also motors with efficiency class IE3     Vultization category   Also motors with efficiency class IE3     Suitable for   Also motors with efficiency class IE3     Vultization category   Also motors with efficiency class IE3     Suitable for   Non-motors estarting, plugping, reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping reversing, inching AC-3: Normal AC induction motors: starting, plugping	Product Sub Type	None
Degree of protection   P20     Frame size   P20     Lifespan, mechanical   0000 000 Operations (AC operated)     Operating frequency   9000 mechanical Operations/h (AC operated)     Obreching category   III     Product category   III     Product category   Contactors     Product category   Somo VAC     Rated impulse withstand voltage (Uimp)   8000 VAC     Resistance per pole   25     Suitable for   25     Voltage stepory   Also motors with efficiency class IE3     Uilization category   Ac-4: Normal AC induction motors: starting, plugging, reversing, inching Ac-3: Normal AC induction motors: starting, switch of during running AC-3: Normal AC induction motors: starting, switch of during running AC-3: Normal AC induction motors: starting, switch of during running AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reve	Globally Marketable	Yes
Degree of protection   P20     Frame size   P20     Lifespan, mechanical   0000 000 Operations (AC operated)     Operating frequency   9000 mechanical Operations/h (AC operated)     Obreching category   III     Product category   III     Product category   Contactors     Product category   Somo VAC     Rated impulse withstand voltage (Uimp)   8000 VAC     Resistance per pole   25     Suitable for   25     Voltage stepory   Also motors with efficiency class IE3     Uilization category   Ac-4: Normal AC induction motors: starting, plugging, reversing, inching Ac-3: Normal AC induction motors: starting, switch of during running AC-3: Normal AC induction motors: starting, switch of during running AC-3: Normal AC induction motors: starting, switch of during running AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, plugging, reve		
Fame size   FS1     Lifespan, mechanical   10,000,000 Operations (AC operated)     Operating frequency   9000 mechanical Operations() (AC operated)     Overoblage category   III     Pollution degree   3     Product category   Contactors     Protection   Reader of the second operation of the second operation opera	Application	Contactors for Motors
Lifespan, mechanical   10.000,000 Operations (AC operated)     Operating frequency   900 mechanical Operations/h (AC operated)     Overvoltage category   III     Pollution degree   3     Product category   Contactors     Protection   Some chanical Operations/h (AC operated)     Rated impulse withstand voltage (Uimp)   9000 V AC     Resistance per pole   2.5     Suitable for   Asse mators with efficiency class IE3     Voltage type   Asse mators with efficiency class IE3     Voltage type   7.9, NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   7.9, NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   7.9, NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   7.9, NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   9.00 winai no contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms     Shock resistance   9.00 winai no contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms     Shock resistance   9.00 winai contact, Mechanical, according to IEC/EN 6	Degree of protection	IP20
Operating frequency9000 mechanical Operations/h (AC operated)Overvoltage categoryIIPolution degree3Product categoryContactorsProtectionFringer and back-of-hand proof, Protection against direct contact when actuated fringer and back-of-hand proof, Protection against direct contact when actuatedReted impulse withstand voltage (Uimp)8000 00 V ACResistance per pole2.5Suitable forAsis motors with efficiency class IE3Utilization categoryAc-4: Normal AC induction motors: starting, plugging, reversing, inching AC-1: Nor-induction motors: starting, switch off during running AC-1: Nor-induction motors: starting, switch off during running AC-1: Nor-induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting, switch off during running AC-1: Normal AC induction motors: starting to EC/EN 60068-2-27, Half- sing suidal shock 10 msShock resistance7 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g. NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sing suidal shock 10 ms3.4 g.	Frame size	FS1
Overvoltage category   II     Pollution degree   3     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   25     Suitable for   Ac 4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting to EC/EN 60068-2-27, Half-sinusidal shock 10 ms     Shock resistance   7 g. NO auxiliary contact, Mechanical, according to EC/EN 60068-2-27, Half-sinusidal shock 10 ms     Jo J, NO auxiliary contact, Mechanical, according to EC/EN 60068-2-27, Half-sinusidal shock 10 ms   34 g. NO auxiliary contact, Mechanical, according to EC/EN 60068-2-27, Half-sinusoidal shock 10 ms	Lifespan, mechanical	10,000,000 Operations (AC 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   2.5     Suitable for   Also motors with efficiency class IE3     Utilization category   Ac-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces     Voltage type   AC     Shock resistance   Y, NO auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms 51, Sinusoidal sh	Operating frequency	9000 mechanical Operations/h (AC operated)
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   2.5     Suitable for   Also motors with efficiency class IE3     Utilization category   AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC induction motors: starting, switch of during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces     Voltage type   AC     Shock resistance   7.9, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   5.9, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   Sinusoidal shock 10 ms     Julication category   Souract, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   Souract, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   Souract, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   Souract, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shoc	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   2.5     Suitable for   Also motors with efficiency class IE3     Utilization category   AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal Normal AC induction motors: starting, switch off during runni	Pollution degree	3
Rated impulse withstand voltage (Uimp)   B000 V AC     Resistance per pole   2.5     Suitable for   Also motors with efficiency class IE3     Utilization category   AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction motors: starting, switch off during running AC-3: Normal AC induction	Product category	Contactors
Resistance per pole   2.5     Suitable for   Also motors with efficiency class IE3     Utilization category   C4: Normal AC induction motors: starting, plugging, reversing, inching AC-4: Normal AC inductive nors: starting, switch off during running AC-4: Normal AC inductive nors: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off during running AC-4: Normal AC inductive norter: starting, switch off duri	Protection	
Suitable for   Also motors with efficiency class IE3     Utilization category   AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces     Voltage type   AC     Shock resistance   7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary 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 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 10 g, N/O main 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 3.4 g, N/C 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 3.4 g, N/C auxiliary contact, Mechanical, ac	Rated impulse withstand voltage (Uimp)	8000 V AC
Utilization category   AC-4: Normal AC induction motors: starting, plugging, reversing, inching AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnaces     Voltage type   AC     Shock resistance   7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Junct resistance   3.4 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Junct resistance   Junct resistance     ALT   Max 2000 m	Resistance per pole	2.5
AC-3: Normal AC induction motors: starting, switch off during running AC-1: Non-inductive or slightly inductive loads, resistance furnacesVoltage typeACShock resistanceT g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5 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/C 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 3 4 g, N/C 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 Max. 2000 m	Suitable for	Also motors with efficiency class IE3
Shock resistance   7 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   7 g, N/O 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/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   5 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   5 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   5 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, Half-sinusoidal shock 10 ms     Shock resistance   5 g, N/O auxiliary contact, Mechanical, according to IEC/EN 60068-2-27, When tabletop-mounted, Half-sinusoidal shock 10 ms     Shock resistance   5 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 ms     Altitude   Max. 2000 m	Utilization category	AC-3: Normal AC induction motors: starting, switch off during running
AltitudeSinusoidal shock 10 ms 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 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5.7 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, 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 3.4 g, N/C 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 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 msAltitudeMax. 2000 m	Voltage type	AC
AltitudeSinusoidal shock 10 ms 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 10 g, N/O main contact, Mechanical, according to IEC/EN 60068-2-27, Half- sinusoidal shock 10 ms 5.7 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, 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 3.4 g, N/C 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 3.4 g, N/C auxiliary contact, Mechanical, according to IEC/EN 60068-2-27 when tabletop-mounted, Half-sinusoidal shock 10 msAltitudeMax. 2000 m		
	Shock resistance	sinusoidal shock 10 ms 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 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 5.7 g, N/O main 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
	Altitude	Max. 2000 m
	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
Emitted interference	According to EN 60947-1
Interference immunity	According to EN 60947-1
Terminal capacity (flexible with ferrule)	2 x (0.75 - 2.5) mm <sup>2</sup> 1 x (0.75 - 2.5) mm <sup>2</sup> 2 x (0.75 - 2,5) mm <sup>2</sup>
Terminal capacity (solid)	2 x (0.75 - 2.5) mm² 1 x (0.75 - 4) mm²
Terminal capacity (solid/stranded AWG)	Single 18 - 10, double 18 - 14
Stripping length (main cable)	10 mm
Stripping length (control circuit cable)	10 mm
Screw size	M3.5, Terminal screw
Screwdriver size	2, Terminal screw, Pozidriv screwdriver 0.8 x 5.5/1 x 6 mm, Terminal screw, Standard screwdriver
Tightening torque	1.2 Nm, Screw terminals
Rated breaking capacity at 220/230 V	120 A
Rated breaking capacity at 380/400 V	120 A
Rated breaking capacity at 500 V	100 A
Rated breaking capacity at 660/690 V	70 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	12 A
Rated operational current (Ie) at AC-3, 380 V, 400 V, 415 V	12 A
Rated operational current (Ie) at AC-3, 440 V	12 A
Rated operational current (Ie) at AC-3, 500 V	10 A
Rated operational current (Ie) at AC-3, 660 V, 690 V	7 A
Rated operational current (Ie) at AC-4, 220 V, 230 V, 240 V	7 A
Rated operational current (Ie) at AC-4, 440 V	7 A
Rated operational current (Ie) at AC-4, 500 V	6 A
Rated operational current (Ie) at AC-4, 660 V, 690 V	5 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)	144 A
Rated operational power at AC-3, 240 V, 50 Hz	4 kW
Rated operational power at AC-3, 380/400 V, 50 Hz	5.5 kW
Rated operational power at AC-3, 415 V, 50 Hz	7 kW
Rated operational power at AC-3, 440 V, 50 Hz	7.5 kW
Rated operational power at AC-3, 500 V, 50 Hz	7 kW
Rated operational power at AC-3, 690 V, 50 Hz	6.5 kW
Rated operational power at AC-4, 220/230 V, 50 Hz	2 kW
Rated operational power at AC-4, 240 V, 50 Hz	2.2 kW
Rated operational power at AC-4, 415 V, 50 Hz	3.4 kW
Rated operational power at AC-4, 440 V, 50 Hz	3.6 kW
Rated operational power at AC-4, 500 V, 50 Hz	3.5 kW
Rated operational power at AC-4, 660/690 V, 50 Hz	4.4 kW
Rated operational voltage (Ue) at AC - max	690 V

Short-circuit current rating (basic rating)	5 kA, SCCR (UL/CSA) 45 A, max. Fuse, SCCR (UL/CSA) 60 A, max. CB, SCCR (UL/CSA)
Short-circuit current rating (high fault at 480 V)	25 A, Class RK5/ 45 A Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, Fuse, SCCR (UL/CSA)
Short-circuit current rating (high fault at 600 V)	25 A, Class RK5/45 A, Class J, max. Fuse, SCCR (UL/CSA) 30/100 kA, 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	25 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	20 A gG/gL
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 (main contacts, general use)	20 A, Maximum motor rating (UL/CSA)
Switching capacity (auxiliary contacts, general use)	10 A, 600 V AC, (UL/CSA) 1 A, 250 V DC, (UL/CSA)
Switching capacity (auxiliary contacts, pilot duty)	P300, DC operated (UL/CSA) A600, AC operated (UL/CSA)
	10 ma
Arcing time	10 ms
Drop-out voltage	AC operated: 0.6 - 0.3 x UC, AC operated
Duty factor	100 %
Pick-up voltage	0.8 - 1.1 V AC x Uc
Power consumption, pick-up, 50 Hz	24 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, pick-up, 60 Hz	30 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Power consumption, sealing, 50 Hz	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz 3.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 50 Hz
Power consumption, sealing, 60 Hz	1.4 W, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz 4.4 VA, Dual-frequency coil in a cold state and 1.0 x Us, at 60 Hz
Rated control supply voltage (Us) at AC, 50 Hz - min	110 V
Rated control supply voltage (Us) at AC, 50 Hz - max	110 V
Rated control supply voltage (Us) at AC, 60 Hz - min	120 V
Rated control supply voltage (Us) at AC, 60 Hz - max	120 V
Rated control supply voltage (Us) at DC - min	0 V
Rated control supply voltage (Us) at DC - max	0 V
Switching time (AC operated, make contacts, closing delay) - min	15 ms
Switching time (AC operated, make contacts, closing delay) - max	21 ms
Switching time (AC operated, make contacts, opening delay) - min	9 ms
Switching time (AC operated, make contacts, opening delay) - max	18 ms
Assigned motor power at 115/120 V, 60 Hz, 1-phase	1 HP
Assigned motor power at 200/208 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 230/240 V, 60 Hz, 1-phase	2 HP
Assigned motor power at 230/240 V, 60 Hz, 3-phase	3 HP
Assigned motor power at 460/480 V, 60 Hz, 3-phase	10 HP
Assigned motor power at 575/600 V, 60 Hz, 3-phase	10 HP
Connection	Screw terminals
Connection to SmartWire-DT	No
Number of contacts (normally open contacts)	1
Number of auxiliary contacts (normally closed contacts)	0
Number of auxiliary contacts (normally open contacts)	1

Safe isolation	400 V AC, Between coil and contacts, According to EN 61140 400 V AC, Between the contacts, According to EN 61140
Special purpose rating of ballast electrical discharge lamps	20 A (600V 60Hz 3phase, 347V 60Hz 1phase)
	20 A (480V 60Hz 3phase, 277V 60Hz 1phase)
Special purpose rating of definite purpose rating	72 A, LRA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA) 12 A, FLA 480 V 60 Hz 3-ph, 100,000 cycles acc. to UL 1995, (UL/CSA)
Special purpose rating of elevator control	7.5 HP, 480 V 60 Hz 3-ph, (UL/CSA) 2 HP, 200 V 60 Hz 3-ph, (UL/CSA) 11 A, 480 V 60 Hz 3-ph, (UL/CSA) 6.8 A, 240 V 60 Hz 3-ph, (UL/CSA) 9 A, 600 V 60 Hz 3-ph, (UL/CSA) 2 HP, 240 V 60 Hz 3-ph, (UL/CSA) 7.5 HP, 600 V 60 Hz 3-ph, (UL/CSA) 7.8 A, 200 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	20 A, 480 V 60 Hz 3phase, 277 V 60 Hz 1phase, (UL/CSA) 20 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)
Equipment heat dissipation, current-dependent Pvid	0 W
Heat dissipation capacity Pdiss	0 W
Heat dissipation per pole, current-dependent Pvid	0.3 W
Rated operational current for specified heat dissipation (In)	12 A
Static heat dissipation, non-current-dependent Pvs	1.4 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.
10.13 Mechanical function	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## **Technical data ETIM 8.0**

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@ss10.0.1-27-37-10-03 [AAB718015])			
Rated control supply voltage Us at AC 50HZ	V	110 - 110	
Rated control supply voltage Us at AC 60HZ	V	120 - 120	
Rated control supply voltage Us at DC	V	0 - 0	
Voltage type for actuating		AC	
Rated operation current le at AC-1, 400 V	А	22	

Rated operation current le at AC-3, 400 V	A	12
Rated operation power at AC-3, 400 V	kW	5.5
Rated operation current le at AC-4, 400 V	A	7
Rated operation power at AC-4, 400 V	kW	3
Rated operation power NEMA	kW	7.4
Modular version		No
Number of auxiliary contacts as normally open contact		1
Number of auxiliary contacts as normally closed contact		0
Type of electrical connection of main circuit		Screw connection
Number of normally closed contacts as main contact		0
Number of normally open contacts as main contact		3