DATASHEET - DILM50(400V50HZ,440V60HZ)



Contactor, 3 pole, 380 V 400 V 22 kW, 400 V 50 Hz, 440 V 60 Hz, AC operation, Screw terminals



Part no. Catalog No. Alternate Catalog No. EL-Nummer (Norway)

DILM50(400V50HZ,440V60HZ) 277832 g XTCE050D0013

4130448

Delivery program

Moder rangeContactorsContactorsAquicationAquicationContactors for ModicoAquicationServer and Server for ModicoContactors up 107 A, 3 poleMinistran cataginyServer and Server a	Delivery program			
Subrage Constrates up to 70 A 3 pale Viliation strates (range of March 1999) Reserve of 1989) indexide leads, subtand 6 march 1990; subtand 1990; subta	Product range			Contactors
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Consciou conceptE3ready devices are identified by the log on their packaging.Consciou concept30000Notes30000Ac-3Kasimu permissible ambient temperature (open.)NotesKasimu permissible ambient temperature (open.)NotesKasimu permissible ambient temperature (open.)Ac-1Kasimu permissible ambient temperature (open.)Conventional free air themal current. 3 pole. 50-80 HzKasimu permissible ambient temperature (open.)OpenImage: Masimu permissible ambient temperature (open.)adot 90Image: Masimu permissible ambient temperature (open.)Act-3Image: Masimu permissible ambient temperature (open.)adot 90Image: Masimu permissible a				IE3 🗸
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Reted operational current Provide an antipact of the sector of the	Connection technique			Screw terminals
AC3NotesN	Number of poles			3 pole
NoteImage: state of the section of the se	Rated operational current			
380 400 VIsA Conventional free air thermal current, 3 pole, 50: 60 HzIsIsOpenIsVVVat d°CIsA0enclosedIsA0openIsA12openIsA12openIsA12accasadIsA15accasadPIs30220 V 230 VPKW2agen valuePKW2agen valuePKW10380 V 400 VPKW6agen valuePKW6380 V 400 VPKW10agen valuePKW10agen valueFKW10agen valueFKW10agen valueFKW10agen valueFKW10agen valueFKW10agen valueFKW10agen valueFKW11agen valueFKW10agen valueFKW11agen valueFKW11agen valueFKW11agen valueFKW11agen valueFKW11agen valueFKW11agen valueKW1111agen valueKW1111agen valueKW1111agen v	AC-3			
AC-1A	Notes			At maximum permissible ambient temperature (open.)
Coventional free air thermal current, 3 pole, 54 - 60 Hz Image: Section Sectin Sectin Section Section Section Section Section Section Section Se	380 V 400 V	l _e	А	50
OpenInterview q ta 40°C h_{1} A8 q ta 40°C h_{1} A8 q conclused h_{1} A5Conventional free air thermal current, 1 poleII q open h_{1} A12 q onclosed h_{1} A12 m closed h_{1} A12 $A c.3$ $H conclusedA12200 V 200 V A conclusedPKW12g box 0400 VPKW2g box 0580 VPKW30A C.4H conclusedI200 V 200 V A conclusedPKW6g box 0580 VPKW5g box 0580 VPKW6g box 0580 VFF6g box 0580 VFF6$	AC-1			
a do °CIn Figure AABenclosedInASopenInAASanclosedInABSAc.aInInAS200 V200 VAPKWSSabove Aov	Conventional free air thermal current, 3 pole, 50 - 60 Hz			
inclosed	Open			
Conventional free air thermal current, 1 pole In A A B2 open In A B2 A inclosed In A B3 A Ac-3 In S5 S S S80 V 400 V P KW 2 S Ac-4 In S S S 20 V 230 V P KW 2 S	at 40 °C	$I_{th} = I_e$	А	80
openhAB2enclosedhAH5Max. rating for three-phase motors, 50 - 60 HzHHHAC-3HHH20 V20 V20 V20 V20 V20 V20 V20 V20 V20 V	enclosed	I _{th}	А	58
initial initial A Is Max. rating for three-phase motors, 50 - 60 Hz	Conventional free air thermal current, 1 pole			
Max. rating for three-phase motors, 50 - 60 Hz Max. rating for three-phase motors, 50 - 60 Hz Max. rating for three-phase motors, 50 - 60 Hz AC-3 P KW Solution 220 V 230 V P KW 15.5 380 V 400 V P KW 22 660 V 690 V P KW 30 AC-4	open	I _{th}	А	162
AC-3 P KV 5.5 380 V 400 V P KV 2 660 V 690 V P KV 30 AC-4 P - 220 V 230 V P KV 6 380 V 400 V P KV 6 380 V 400 V P KV 10 380 V 400 V P KV 1 660 V 690 V P KV 1 660 V 690 V P KV 1 Contact sequence P KV 1 Actaint sequence P Context sequence Context sequence Actaint sequence P Context sequence Context sequence Actaint sequence P	enclosed	I _{th}	А	145
20 V230 V P KW 5.5 380 V400 V P KW 2.4 660 V 690 V P KW 6.4 20 V230 V P KW 6.4 380 V400 V F F F 380 V400 V P KW 6.4 660 V 690 V F F F 660 V 690 V F F F 610 K 690 V F F F 610 V 60 V/2 V F F F 610 V 50 V/2 V/2 V F F F 610 V 50 V/2 V F F F 610 V 50 V/2 V F F F 610 V 50 V/2 V 50 V/2 V F F F	Max. rating for three-phase motors, 50 - 60 Hz			
380 V 400 V P KW 2 660 V 690 V P KW 30 AC-4	AC-3			
660 V 690 V P KW 30 AC-4 I I I 220 V 230 V P KW 6 380 V 400 V P KW 10 660 V 690 V P KW 14 Contact sequence F F Contact sequence Contact sequence F F F F Contact sequence F F Contact sequence F Contact sequence F F Contact sequence F Contact sequence F F	220 V 230 V	Р	kW	15.5
AC-4 Image: AC-4	380 V 400 V	Ρ	kW	22
220 V 230 VPKW6380 V 400 VPKW10660 V 690 VPKW14Contact sequenceFFA1 1 1 1 3 5 - - A2 2 2 4 6InstructionsFFContacts to EN 50 012.Can be combined with auxiliary contactFFContacts to EN 50 012.Actuating voltageFF60 V 50 Hz, 440 V 60 HzVoltage AC/DCFF60 V 50 Hz, 440 V 60 Hz	660 V 690 V	Р	kW	30
380 V 400 VPKW10660 V 690 VPKW14Contact sequenceImage: Sequence Sequ	AC-4			
660 V 690 VPW14Contact sequenceIIIInstructionsIIIICan be combined with auxiliary contactIIIIIActuating voltageIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	220 V 230 V	Р	kW	6
Contact sequence A1 1 1 1 3 1 5 Instructions A1 1 1 1 3 1 5 Can be combined with auxiliary contact Contact so EN 50 012. Actuating voltage Contact so EN 50 012. Voltage AC/DC Contact so EN 50 Hz, 440 V 60 Hz	380 V 400 V	Р	kW	10
Instructions Contacts to EN 50 012. Can be combined with auxiliary contact Image: Contacts to EN 50 012. Actuating voltage Image: Contacts to EN 50 012. Voltage AC/DC Image: Contacts to EN 50 012.	660 V 690 V	Ρ	kW	14
Can be combined with auxiliary contact Image: Comparison of the comparis	Contact sequence			$\begin{array}{c} A_{1} \\ A_{2} \\ A_{2} \\ A_{2} \\ A_{2} \\ A_{2} \\ A_{2} \\ A_{3} \\ A_{4} \\ B_{6} \end{array}$
Actuating voltage Image: Constraint of the second	Instructions			Contacts to EN 50 012.
Voltage AC/DC AC operation	Can be combined with auxiliary contact			
	Actuating voltage			400 V 50 Hz, 440 V 60 Hz
Connection to SmartWire-DT no	Voltage AC/DC			AC operation
	Connection to SmartWire-DT			no

Fechnical data General			
Standards			IEC/EN 60947, VDE 0660, UL, CSA
Lifespan, mechanical			
AC operated	Operations	x 10 ⁶	10
	operatione	x 10 ⁻	
Operating frequency, mechanical			
AC operated	Operations/h		5000
Climatic proofing			Damp heat, constant, to IEC 60068-2-78 Damp heat, cyclic, to IEC 60068-2-30
Ambient temperature			
Open		°C	-25 - +60
Enclosed		°C	- 25 - 40
Storage		°C	- 40 - 80
Mounting position			
Mechanical shock resistance (IEC/EN 60068-2-27)			
Half-sinusoidal shock, 10 ms			
Main contacts			
N/O contact		g	10
Auxiliary contacts			
N/O contact		g	7
N/C contact		g	5
Mechanical shock resistance (IEC/EN 60068-2-27) when tabletop-mounted			
Half-sinusoidal shock, 10 ms			
Main contacts			
N/O contact		g	10
Auxiliary contacts			
N/O contact		g	7
N/C contact		g	5
Degree of Protection			IP00
Protection against direct contact when actuated from front (EN 50274)			Finger and back-of-hand proof
Altitude		m	Max. 2000
Weight			
AC operated		kg	0.872
Screw connector terminals			
Terminal capacity main cable			
Solid		mm ²	1 x (0.75 - 16) 2 x (0.75 - 16)
Flexible with ferrule		mm ²	1 x (0.75 - 35) 2 x (0.75 - 25)
Stranded		mm ²	1 x (16 - 50) 2 x (16 - 35)
Solid or stranded		AWG	single 14 - 1, double 14 - 2
Flat conductor	Lamellenzahl x Breite x Dicke	mm	2 x (6 x 9 x 0.8)
Stripping length		mm	14
Terminal screw			M6
Tightening torque		Nm	3.3
Tool			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5
			1 x 6

		0	4 (0.75 - 4)
Solid		mm ²	1 x (0.75 - 4) 2 x (0.75 - 2.5)
Flexible with ferrule		mm ²	1 x (0.75 - 2.5)
			2 x (0.75 - 2.5)
Solid or stranded		AWG	18 - 14
Stripping length		mm	10
Terminal screw			M3.5
Tightening torque		Nm	1.2
Tool			
Pozidriv screwdriver		Size	2
Standard screwdriver		mm	0.8 x 5.5
Main conducting paths			1×6
Rated impulse withstand voltage	U _{imp}	V AC	8000
Overvoltage category/pollution degree	b		111/3
Rated insulation voltage	Ui	V AC	690
Rated operational voltage	U _e	V AC	690
	Ue	V AU	000
Safe isolation to EN 61140		14.4.0	40
between coil and contacts		V AC	440
between the contacts		V AC	440
Making capacity (p.f. to IEC/EN 60947)	lin to 600 M	٨	700
Proving conseity	Up to 690 V	A	700
Breaking capacity		٨	500
220 V 230 V		A	500
380 V 400 V		A	500
500 V		A	500
660 V 690 V		A	320
Short-circuit rating			
Short-circuit protection maximum fuse			
Type "2" coordination	0/ / 500 //		
400 V	gG/gL 500 V	A	80
690 V	gG/gL 690 V	A	63
Type "1" coordination	0/ / 500 //		
400 V	gG/gL 500 V		160
690 V AC	gG/gL 690 V	A	80
AC-1			
Rated operational current			
Conventional free air thermal current, 3 pole, 50 - 60 Hz			
Open			
at 40 °C	I _{th} =I _e	A	80
at 50 °C	I _{th} =I _e	A	71
at 55 °C			68
	I _{th} =I _e	A	
at 60 °C	I _{th} =I _e	A	65
enclosed	I _{th}	A	58
Conventional free air thermal current, 1 pole			
open	I _{th}	А	162
enclosed	I _{th}	А	145
AC-3			
Rated operational current			
Open, 3-pole: 50 – 60 Hz			
Notes			At maximum permissible ambient temperature (open.)
220 V 230 V	l _e	А	50
240 V	le	А	50
380 V 400 V	l _e	А	50
415 V	l _e	А	50

4W4W4W4W5004W4W5004W4W5004W4W5004W5W5004W6W5005006W5005006W5005006W5005006W5005006W5005006W5005006W5005006W5005006W <th></th> <th></th> <th></th> <th></th>				
iiiiiMorraniNNMorranNNN2020Y <td></td> <td>le</td> <td></td> <td></td>		le		
JewayIIIJayayINov<		l _e	A	50
Inder cellingNomeMotor cellingNomeSinAutyNomeSinAut	660 V 690 V	l _e	А	32
220 Y20 YPNMP5230 Y M0 YPNMP440 YPNMP440 YPNMP4500 Y M0 YNMPNM500 Y M0 YNMPNM500 Y M0 YNMPP500 Y M0 YNMNMP500 Y M0 YPNMP500 Y M0 YNMPNM500 Y M0 YNMPNM500 Y M0 YNMPNM500 Y M0 YNMPNM500 Y M0 YNMNMP500 Y M0 YNMNMP500 Y M0 YNMNMP500 Y M0 YNMNMP500 Y M0 Y </td <td>380 V 400 V</td> <td>I_e</td> <td>А</td> <td>50</td>	380 V 400 V	I _e	А	50
AdvPWWAdvPW2AdvPW2AdvPW2AdvPW2BorrantPW3AdvPW3AdvPW3AdvPW3AdvNN3 <td>Motor rating</td> <td>Р</td> <td>kWh</td> <td></td>	Motor rating	Р	kWh	
jankpkmpjankpkmpjankpkmpjankpkmpjankpkmpjankpkmpjankpkmpjankpkmpjankpkmpjankkmppjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmpkmjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmpjankkmkmp<	220 V 230 V	Р	kW	15.5
419 VPNV844 VPNV2500 VPNV2500 VPNV5064PNV50220 V30 VVN1220 V30 VVN2300 V00 VVN20440 VNN1300 V00 VVN1400 V00 VVN1300 V00 VVN1220 V30 VVN1300 V00 VNN1200 V00 VVN1200 V00 VVN1200 V00 VNN1200 V00 VPND1200 V00 V00 VPND1200 V00 V00 VPN	240V	Р	kW	17
440 VPNS140 VPNR150 VNRR150 VNRR120 VNRR200 VRRR200 VRRR200 VRRR400 VRRR400 VRRR400 VRRR400 VRRR100 VRRR100 VRRR200 VRRR100 VRRR200 VR<	380 V 400 V	Р	kW	22
SNPNARSNOVNAAS	415 V	Р	kW	30
set with the set of the set	440 V	Р	kW	32
A-4AAQuery Sulve Sul	500 V	Р	kW	36
ppm.5pm.6pm.6pm.6pm.6pm.6pm.6pm.6pm.6pm.6pm.6	660 V 690 V	Р	kW	30
280 Yallo Yall	AC-4			
200 VInInAIn300 V 400 VInA2300 V 400 VInA2400 VInA2300 VInA2500 VInA3500 VInA3500 VInA3500 VInA3500 VInA3200 VPKW6200 VPKW10400 VPKW10400 VPKW10400 VPKW10400 VPKW10400 VPKW10400 VPKW10500 VPKW10600 VPKW10600 VPKW10600 VPKW10600 VPKW10600 VIn1010700 VInA10700 VIn1010700 VIn	Open, 3-pole: 50 – 60 Hz			
and <br< td=""><td>220 V 230 V</td><td>l_e</td><td>A</td><td>21</td></br<>	220 V 230 V	l _e	A	21
415VIcA240VIcA240VIcA250VIcA250VIcA350VIcAA20V20VPK620V20VPK630V3VPK1030V40VPK1040VPK1040VPK1050V50VPK1050V50VPK1050V50VPK1050V50VPK1050V50VPK1050V50VPK1050V50VPK1050V50VFF1050V50VFK1050V50VFK1050V50VFK1050V50VFK1050V50VFK1050V50VFK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VKK1050V50VK	240 V	l _e	A	21
45 v10202040 v102050 v102050 v20 v2020 v20 v2020 v20 v2020 v20 v3030 v20 v3030 v20 v3030 v20 v3030 v20 v3040 v20 v3050 v30 v305	380 V 400 V		A	21
440 vnA2500 vkeA2500 vkeA2600 vkeA7Motor ratingPWh6200 vPKW6200 vPKW6200 vPKW10415 vPKW10415 vPKW12400 vPKW12400 vPKW12500 vFKW5500 v <t< td=""><td></td><td></td><td></td><td></td></t<>				
Image: set of the				
B60 V 680 VIIMotor ratingPKW201 V 200 VPKW201 V 200 VPKW201 V 200 VPKW300 V 00 VPKW415 VPKW415 VPKW440 VPKW500 VPKW500 VPKW680 V 600 VPKW680 VPKW700 VPKW700 VPKW701 VPKW702 VPKW703 VPKW704 VPP804 VPKW705 VPKW706 VPF804 VPP804 VPP906 vL (W 0)'PN806 VPW906 vL (W 0)'PN906 vL (W 0)'PN907 vL (W 0)'PN908 vL (W 0)'P <td></td> <td></td> <td></td> <td></td>				
Motor ratingPKVhZ0V 230 VPKVh240 VPKVh240 VPKVh360 V400 VPKVh450 V400 VPKVh450 V400 VPKVh450 V400 VPKVh360 V400 VPKVh500 VPKVh500 VPKVh500 VPKVh500 VPKVh500 VPKVh500 VPKVh501 VFF501 VKP501 VKP502 VKP503 V400 VKP504 V400 VKP <tr< td=""><td></td><td></td><td></td><td></td></tr<>				
20 v20 vPRV8240 vPKV6.530 v40 vPKV10415 vPKV10440 vPKV12500 vPKV12500 vPKV13500 vPKV14500 vPKV14500 vPKV14501 vPKV14501 vVPKV101 vVN14501 vVN14501 vVN14101 vN				17
2 40 VPKV65380 V 400 VPKV10415 VPKV114 40 VPKV12500 VPKV13500 VPKV14DCPKV14DCPKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV140 C1PKV1410 VPA8010 VPKV1410 VPKV1420 VPNC9110 VPNC1910 VPNC1010 VP				
Sol ValuePKVI415 VPKV1440 VPKV1440 VPKV1500 VPKV1500 VPKV1600 VPKV1D-1VV110 VLA520 VLKV110 VLA520 VLKV110 VLKV520 VKV5520 VKV5520 VKV5520 VKV5520 VKV5520 VKV5520 VKV5520 VKV5520 VKV5520 V			kW	
415 \u00ed \u			kW	6.5
40 VPKV2500 VPKV3660 V 690 VPKV4DCFFBated operational current, openFF60 VIK610 VIK620 VIK520 VIK520 VIK520 VIK5Current bet loss at (a to AC:3400 V)KK5Impedance per poleV1010Magnet systemsV1010Votage toleranceProc. VS3For out votage AC operatedProc. VS10Power cosmit of the coll in a cold state and 10 x VgK1450 HzSealingK1650 HzSealingK1660 HzS			kW	10
S00 VPKW13600 V690 VPKW14DCBeted operational current, openPKW14DC-1PP60 VIN60110 VIA60200 VIA50200 VIA50201 VIA50202 VIA50201 VIA50201 VIA50201 VIA50201 VIM157Current heat loss at Is to AC-3/400 VM93Impedance per poleMND19Magnet systemsVUage toleranceA60 - 1.1Power consumption of the coll in a cold state and 10 x UgYUage SealingXUage SealingXUage Sealing50 HzScoparatedPick-upVA1450 HzScolaringVA1650 HzScalingVA1360 HzSealingVA1360 HzScalingVA1460 HzScalingVA1360 HzScalingVA1360 HzScalingVA1460 HzScalingVA1460 HzScalingVA1460 HzScalingVA1460 HzScali		Р	kW	
e60 V 80 V P KW 14 DC Rated operational current. open Image: Construction of the colin of construction of the colin of construction of the colin of colin construction of the colin of colin c	440 V	Р	kW	12
DC Reted operational current, open Image: Sectional current, open DC.1 Image: Sectional current, open 60 V Image: Sectional current, open 10 V Image: Sectional current, open 20 V Image: Sectional current, open 20 V Image: Sectional current, open 3 pole, at Image: Sectional current, beat loss at Image		Р	kW	13
Rated operational current, open Penel		Р	kW	14
DC-1IntermediateI				
60V Ie A 60 10V Ie A 50 20V Ie A 50 20V Ie A 50 Current heat loss Ie A 50 Current heat loss at Ie to AC-3(400 V Import Import FV Impedance per pole Import V 90 Impedance per pole Import Import Import Voltage tolerance Import Import Import A Coperated Pick-up V 0.8.1.1 Drop-out voltage AC operated Pick-up V 0.8.1.1 Sol H2 Sol H2 Sol H2 Sol H2 Sol H2 Sol H2 Sol H2 Import Sol H2 Sol H2 Sol H2				
Into VIeA50220 VIeA45Current heat loss506.720 et al In (60°)V9.9Current heat loss at Ie to AC:3/400 VV9.9Impedance per poleN9.9Impedance per poleN9.9Magnet systems9.9Voltage tolerancePick-upX UeOrop-out voltage AC operatedPorp-outX UeSo Hzcold state and 1.0 x Us5050 HzSealingVA1450 HzSealingVA1650 HzSealingVA1660 HzSealingVA1660 HzSealingVA17860 HzSealingVA1960 HzSealingVA10Forture time at 100 % Us (recommended value)% DF100Main contacts% DF100			۸	<u>co</u>
220 V Ie A 4 Current heat loss 3 3 pole, at Ie, (60°) V 6.7 Current heat loss at Ie to AC-3/400 V V 9.9 Impedance per pole n0 1.9 Magnet systems V 8.1 Voltage tolerance V 8.1 Prover consumption of the coil in a cold state and 1.0 x Ug VA 1.9 50 Hz Prok-up VA 1.9 50 Hz Sealing VA 1.9 50 Hz Sealing VA 1.9 50 Hz Sealing VA 1.9 60 Hz Sealing VA 1.9 60 Hz Sealing VA 1.0 Forty factor Sealing VA 1.0 Main contacts YA 1.0 1.0				
Current heat loss 3 pole, at I ₁₁ (60°) I I67 Current heat loss at I ₄ to AC-3/400 V W 9.9 Impedance per pole W 9.9 Magnet systems Impedance per pole No 1.9 Voltage tolerance Pore-out voltage AC operated Pore-out voltage AC operated No 8.8-1.1 Power consumption of the coil in a cold state and 1.0 x U _S Pore-out voltage AC operated Pore-out voltage AC operated No 1.9 Power consumption of the coil in a cold state and 1.0 x U _S Pick-up X U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Voltage AC operated Pick-up X U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Voltage AC operated Pick-up X U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Y U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Y U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Y U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Y U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S Y U _c 1.3 (Anticome Consumption of the coil in a cold state and 1.0 x U _S 1.3				
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Curren theat loss at l _a to AC-3/400 V We 9.9 Impedance per pole m0 1.9 Magnet systems No 1.9 Voltage tolerance inc No AC operated Pick-up XUc 0.8 - 1.1 Drop-out voltage AC operated Pick-up XUc 0.3 - 0.6 Power consumption of the coil in a cold state and 1.0 x Us Yer 0.3 - 0.6 50 HZ Pick-up Yer 1.9 50 HZ Sealing Yer 1.9 50 HZ Sealing Yer 1.0 60 HZ Sealing Yer 1.0 60 HZ Sealing Yer 1.0 60 HZ Sealing Yer 1.0 70 try factor Sealing Yer 1.0 Tury factor Sealing Yer 1.0			14/	16.7
Impedance per pole Impedan				
Magnet systems Voltage tolerance Income to the column set of t				
Voltage tolerance Index Index Index AC operated Pick-up x Uc 0.8 - 1.1 Drop-out voltage AC operated Drop-out x Uc 0.3 - 0.6 Power consumption of the coil in a cold state and 1.0 x Ug Vert 1.4 50 Hz Pick-up YA 149 50 Hz Sealing YA 160 50 Hz Sealing YA 160 60 Hz Sealing YA 160			mΩ	1.9
AC operated Pick-up x Uc 0.8 1.1 Drop-out voltage AC operated Drop-out x Uc 0.3 0.6 Power consumption of the coil in a cold state and 1.0 x Ug V V V 50 Hz Pick-up YAc 149 50 Hz Saling VA 16 50 Hz Saling VA 16 60 Hz Saling VA 18 60 Hz Saling VA 19 60 Hz Saling VA 19 60 Hz Saling VA 10 Duty factor YA YA 10 Main contacts YA YA YA				
Drop-out voltage AC operated Drop-out × U _c 0.3 - 0.6 Power consumption of the coil in a cold state and 1.0 × U _S V V V 50 Hz Pick-up VA 149 50 Hz Sealing VA 140 50 Hz Sealing VA 140 60 Hz Sealing VA 140 60 Hz Sealing VA 178 60 Hz Sealing VA 140 Fourty factor Sealing Sealing 140 Fourty factor Sealing Sealing 140 Main contacts Sealing<		Pick-up	v II	08-11
Power consumption of the coil in a cold state and 1.0 × U _S Image: Cold state and 1.0 × U _S 50 Hz Fick-up VA 149 50 Hz Sealing VA 60 50 Hz Sealing VA 10 60 Hz Fick-up VA 178 60 Hz Sealing VA 19 60 Hz Sealing VA 10 60 Hz Sealing VA 10 Duty factor Sealing VA 10 Changeover time at 100 % U _S (recommended value) YA YA				
50 HzPick-upVA14950 HzSealingVA1650 HzSealingVA17860 HzPick-upVA17860 HzSealingVA1960 HzSealingVA1060 HzSealingVA1060 HzSealingVA10For HzSealingVA10Duty factorFor HzSealingVANain contactsNaineNaineNaineMain contactsNaineNaineNaine		Drop-out	χŪ _C	U.0 - U.U
50 Hz Sealing VA 16 50 Hz Sealing Wa 4.1 60 Hz Pick-up VA 18 60 Hz Sealing VA 19 60 Hz Sealing VA 10 For particular Sealing VA 10 Main contacts Main contacts Sealing Sealing				
50 Hz Sealing W 4.1 60 Hz Ya 178 60 Hz Sealing VA 19 60 Hz Sealing W 4.1 60 Hz Sealing W 4.1 60 Hz Sealing W 5.2 60 Hz Sealing Sealing Sealing Duty factor Sealing Sealing Sealing Main contacts Sealing Sealing Sealing				
60 Hz Pick-up VA 18 60 Hz Sealing VA 9 60 Hz Sealing VA 9 60 Hz Sealing VA 4.1 Duty factor Free Sealing Sealing Sealing Main contacts Main contacts Sealing Sealing				
60 Hz Sealing VA 19 60 Hz Sealing W 4.1 Duty factor % DF 10 Changeover time at 100 % Us (recommended value) Main contacts Main contacts				
60 Hz Sealing W 4.1 Duty factor % DF 100 Changeover time at 100 % U _S (recommended value) Main contacts % DF				
Duty factor % DF Changeover time at 100 % U _S (recommended value) Image: Changeover time at 100 % U _S (recommended value) Main contacts Image: Changeover time at 100 % U _S (recommended value)				
Changeover time at 100 % U _S (recommended value) Main contacts		Sealing		4.1
Main contacts			% DF	100
	Changeover time at 100 % U_{S} (recommended value)			
	Main contacts			
AL operated	AC operated			

Closing delay	ms	S	12 - 18
Opening delay	ms	S	8 - 13
Arcing time	ms	S	10
Electromagnetic compatibility (EMC)			
Emitted interference			to EN 60947-1
Interference immunity			to EN 60947-1

Design verification as per IEC/EN 61439

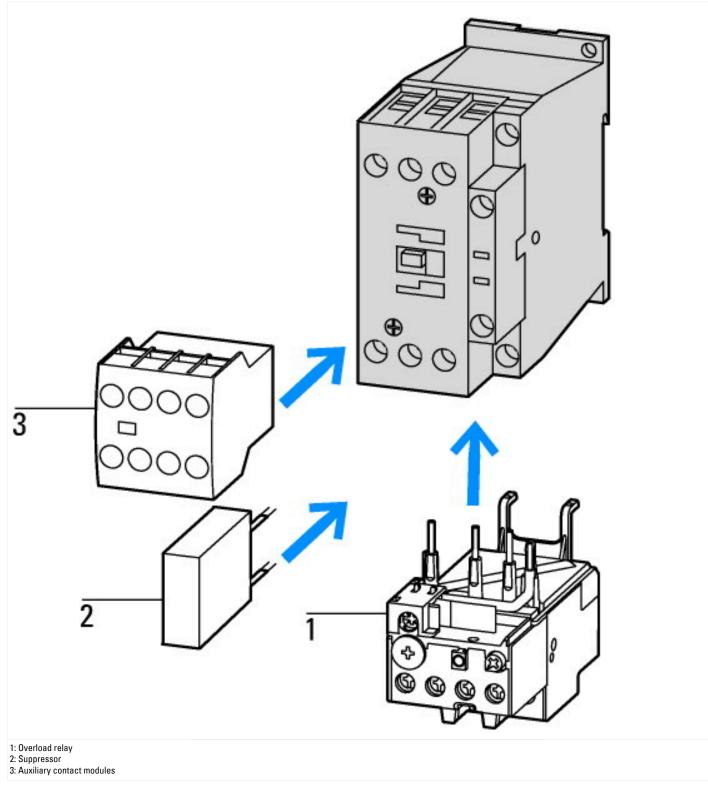
I _n	А	50
P _{vid}	W	3.3
P _{vid}	W	9.9
P _{vs}	W	4.1
P _{diss}	W	0
	°C	-25
	°C	60
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
		Does not apply, since the entire switchgear needs to be evaluated.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
		Meets the product standard's requirements.
		Does not apply, since the entire switchgear needs to be evaluated.
		Does not apply, since the entire switchgear needs to be evaluated.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		Is the panel builder's responsibility.
		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
	P _{vid} P _{vid} P _{vs}	P _{vid} W P _{vid} W P _{vs} W P _{diss} W C

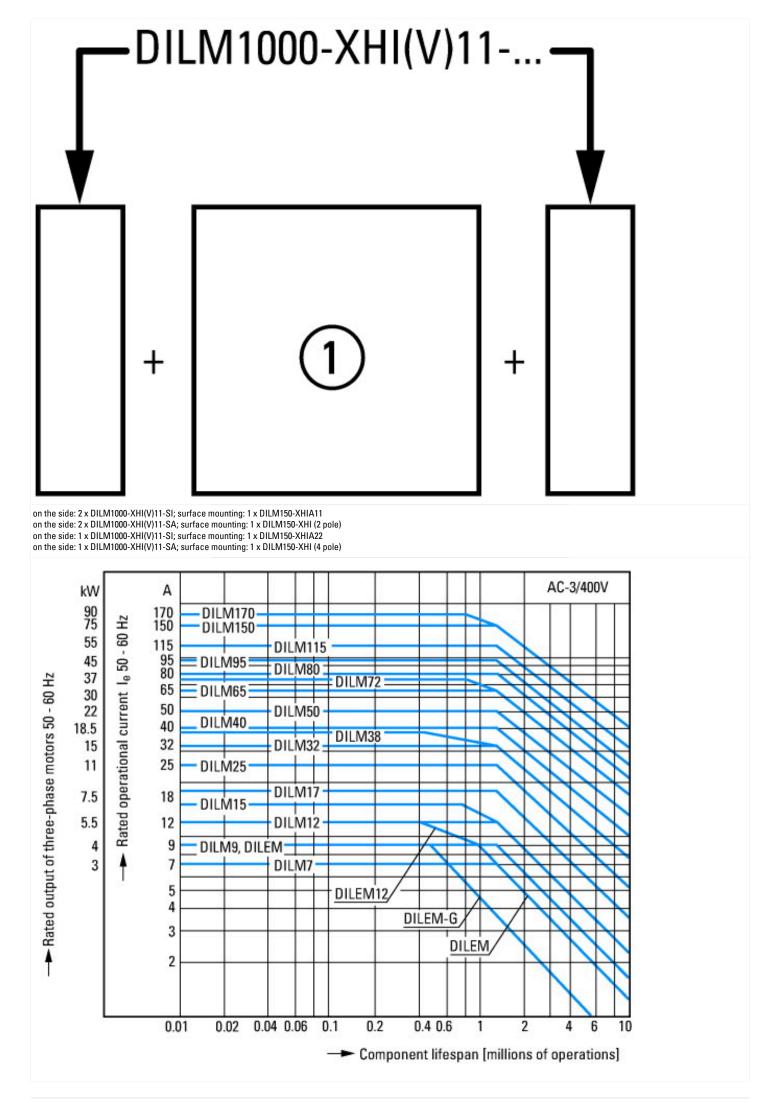
Technical data ETIM 7.0

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	400 - 400		
Rated control supply voltage Us at AC 60HZ	V	440 - 440		
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	80		
Rated operation current le at AC-3, 400 V	А	50		
Rated operation power at AC-3, 400 V	kW	22		
Rated operation current le at AC-4, 400 V	А	21		

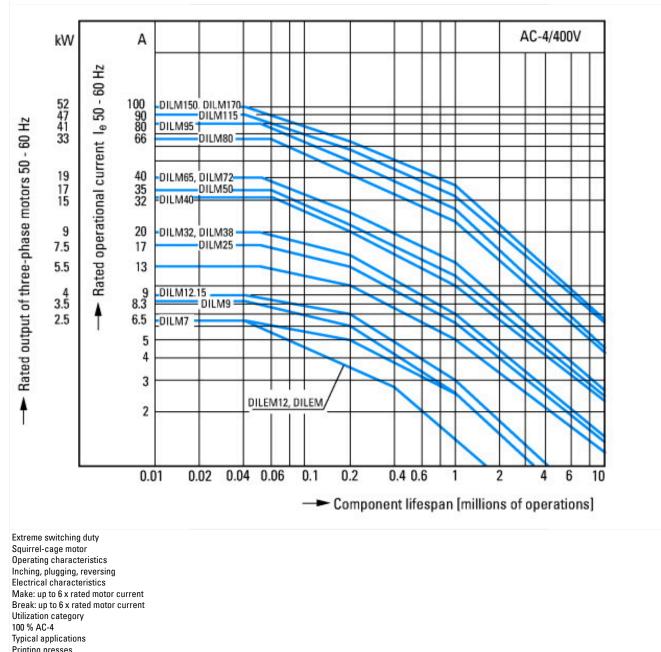
Rated operation power at AC-4, 400 V	kW	10
Rated operation power NEMA	kW	29.8
Modular version		No
Number of auxiliary contacts as normally open contact		0
Number of auxiliary contacts as normally closed contact		0
Type of electrical connection of main circuit		Screw connection
Number of normally closed contacts as main contact		0
Number of main contacts as normally open contact		3

Characteristics





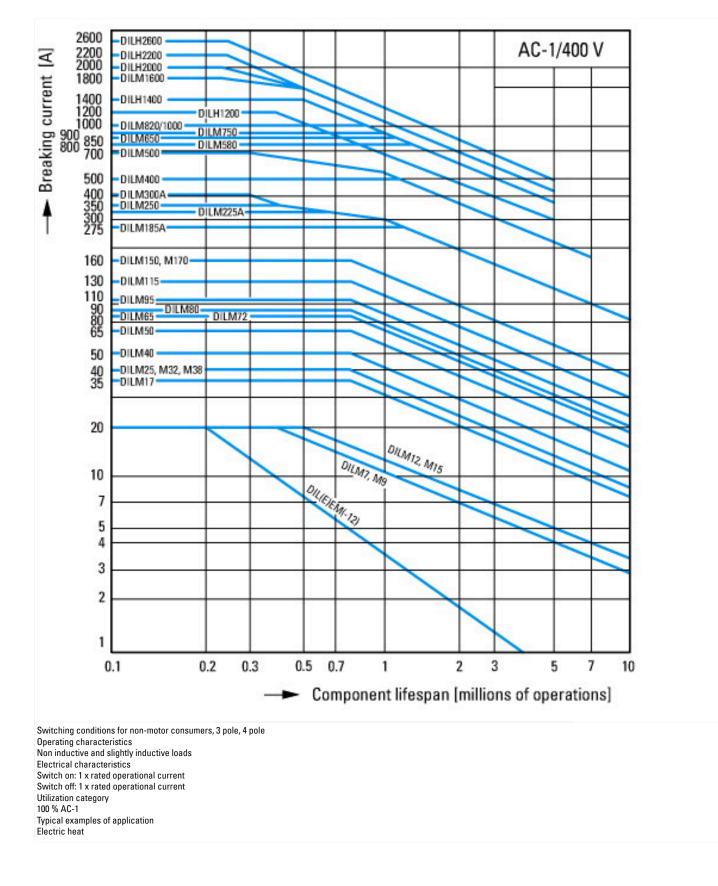
Squirrel-cage motor Operating characteristics Starting:from rest Stopping:after attaining full running speed **Electrical characteristics** Make: up to 6 x rated motor current Break: up to 1 x rated motor current Utilization category 100 % AC-3 Typical applications Compressors Lifts Mixers Pumps Escalators Agitators Fans Conveyor belts Centrifuges Hinged flaps Bucket-elevators Air conditioning system General drives in manufacturing and processing machines



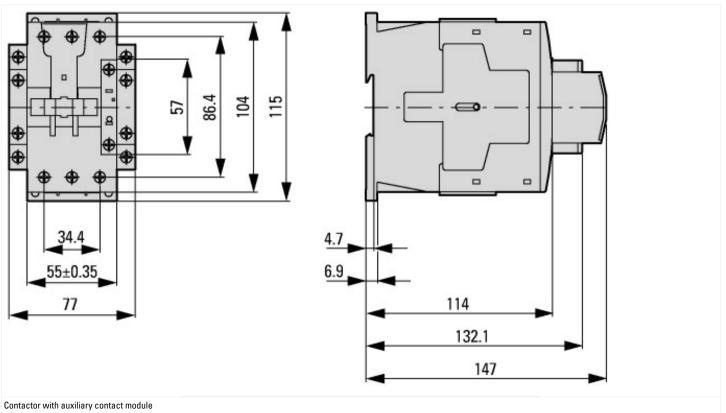
Printing presses Wire-drawing machines

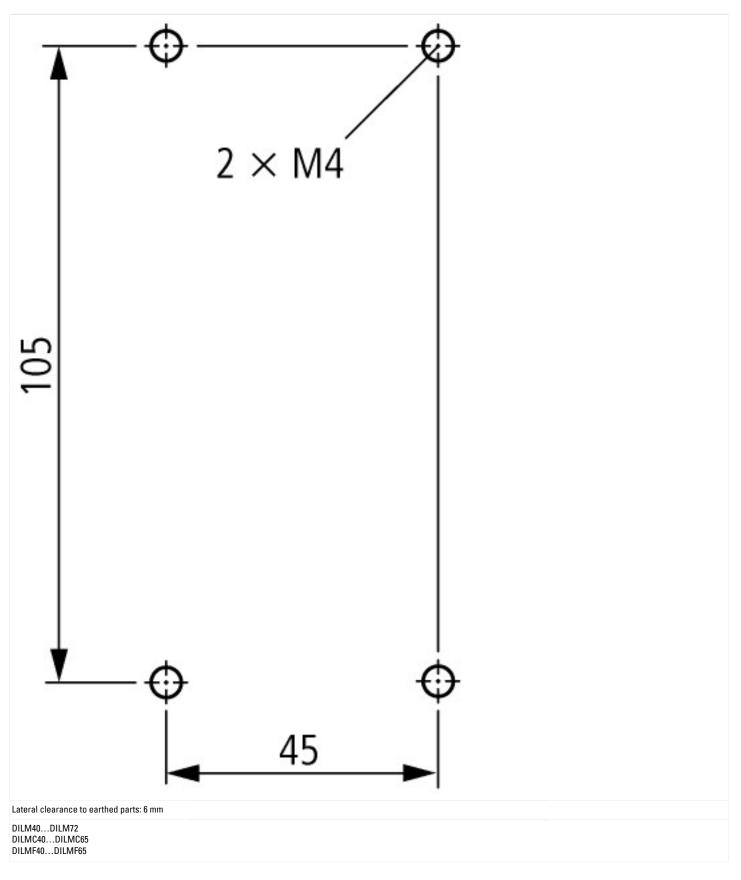
Centrifuges

Special drives for manufacturing and processing machines









Assets (links)

Declaration of CE Conformity 00003252 Instruction Leaflets

IL03407033Z2018_03