



**139557**  
**DILM 300A/22(RAC500)**

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## DELIVERY PROGRAM

Product range  
Contactors

Application  
Contactors for Motors

Subrange  
Comfort devices greater than 170 A

Utilization category  
AC-1: Non-inductive or slightly inductive loads, resistance furnaces  
NAC-3: Normal AC induction motors: starting, switch off during running  
AC-4: Normal AC induction motors: starting, plugging, reversing, inching

Connection technique  
Screw connection

### Rated operational current

AC-3  
380 V 400 V [ $I_e$ ]  
300 A

AC-1  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
Open  
at 40 °C [ $I_{th} = I_e$ ]  
490 A

AC-1  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
enclosed [ $I_{th}$ ]

315 A

AC-1  
Conventional free air thermal current, 1 pole  
open [I<sub>th</sub>]  
875 A

AC-1  
Conventional free air thermal current, 1 pole  
enclosed [I<sub>th</sub>]  
785 A

### Max. rating for three-phase motors, 50 - 60 Hz

AC-3  
220 V 230 V [F]  
90 kW

AC-3  
380 V 400 V [F]  
160 kW

AC-3  
660 V 690 V [F]  
170 kW

AC-3  
1000 V [F]  
132 kW

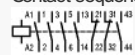
AC-4  
220 V 230 V [F]  
75 kW

AC-4  
380 V 400 V [F]  
132 kW

AC-4  
660 V 690 V [F]  
137 kW

AC-4  
1000 V [F]  
108 kW

Contact sequence



Can be combined with auxiliary contact  
DILM820-XH1...

Actuating voltage  
RAC500: 250 - 500 V 40 - 60 Hz/250 - 700 V DC

Voltage AC/DC  
AC and DC operation

## Contacts

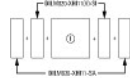
N/O = Normally open  
2 N/O

N/C = Normally closed  
2 N/C

## Auxiliary contacts

possible variants at auxiliary contact module fitting options  
on the side: 2 x DILM820-XH11(V)-SI; 2 x DILM820-XH11-SA

Side mounting auxiliary contacts



### Instructions

Interlocked opposing contacts according to IEC/EN 60947-5-1 Appendix L, inside the auxiliary contact module  
Auxiliary contacts used as mirror contacts according to IEC/EN 60947-4-1 Appendix F (not N/C late open)

### Instructions

integrated suppressor circuit in actuating electronics  
660 V, 690 V or 1000 V: not directly reversing

## TECHNICAL DATA

### General

Standards  
IEC/EN 60947, VDE 0660, UL, CSA

Lifespan, mechanical  
AC operated [Operations]  
10 x 10<sup>6</sup>

Lifespan, mechanical  
DC operated [Operations]  
10 x 10<sup>6</sup>

Operating frequency, mechanical  
AC operated [Operations/h]  
3000

Operating frequency, mechanical  
DC operated [Operations/h]  
3000

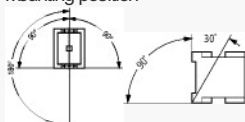
Climatic proofing  
Damp heat, constant, to IEC 60068-2-78  
Damp heat, cyclic, to IEC 60068-2-30

Ambient temperature  
Open  
-40 - +60 °C

Ambient temperature  
Enclosed  
- 40 - + 40 °C

Ambient temperature  
Storage  
- 40 - + 80 °C

Mounting position



Mechanical shock resistance (IEC/EN 60068-2-27)  
Half-sinusoidal shock, 10 ms  
Main contacts  
N/O contact  
10 g

Mechanical shock resistance (IEC/EN 60068-2-27)  
Half-sinusoidal shock, 10 ms  
Auxiliary contacts  
N/O contact  
10 g

Mechanical shock resistance (IEC/EN 60068-2-27)  
Half-sinusoidal shock, 10 ms  
Auxiliary contacts  
N/C contact  
8 g

Degree of Protection  
IP00

Protection against direct contact when actuated from front  
(EN 50274)  
Finger and back-of-hand proof with terminal shroud or  
terminal block

Altitude  
Max. 2000 m

Weight  
AC operated  
7.1 kg

Weight  
DC operated  
7.1 kg

Weight  
Weight  
7.1 kg

Terminal capacity main cable  
Flexible with cable lug  
50 - 240 mm<sup>2</sup>

Terminal capacity main cable  
Stranded with cable lug  
70 - 240 mm<sup>2</sup>

Terminal capacity main cable  
Solid or stranded  
2/0 - 500 MCM/AWG

Terminal capacity main cable  
Flat conductor [Lamellenzahl x Breite x Dicke ]  
Fixing with flat cable terminal or cable terminal blocks  
See terminal capacity for cable terminal blocks mm

Terminal capacity main cable  
Busbar [Width]  
25 mm

Main cable connection screw/bolt  
M10

Tightening torque  
24 Nm

Terminal capacity control circuit cables  
Solid  
1 x (0.75 - 2.5)  
2 x (0.75 - 2.5) mm<sup>2</sup>

Terminal capacity control circuit cables  
Flexible with ferrule  
1 x (0.75 - 2.5)  
2 x (0.75 - 2.5) mm<sup>2</sup>

Terminal capacity control circuit cables  
Solid or stranded  
18 - 14 AWG

Control circuit cable connection screw/bolt  
M3.5

Tightening torque  
1.2 Nm

Tool  
Main cable  
Width across flats  
16 mm

Tool  
Control circuit cables  
Pozi driv screw driver  
2 Size

## Main conducting paths

Rated impulse withstand voltage [ $U_{imp}$ ]  
8000 V AC

Overvoltage category/pollution degree  
III/3

Rated insulation voltage [ $U_i$ ]  
1000 V AC

Rated operational voltage [ $U_o$ ]  
1000 V AC

Safe isolation to EN 61140  
between coil and contacts  
500 V AC

Safe isolation to EN 61140  
between the contacts  
500 V AC

Making capacity (p.f. to IEC/EN 60947)  
3600 A

Breaking capacity  
220 V 230 V  
3000 A

Breaking capacity  
380 V 400 V  
3000 A

Breaking capacity  
500 V  
3000 A

Breaking capacity  
660 V 690 V  
3000 A

Breaking capacity  
1000 V  
950 A

Component lifespan  
AC1: See → Engineering, characteristic curves  
AC3: See → Engineering, characteristic curves  
AC4: See → Engineering, characteristic curves

Short-circuit rating  
Short-circuit protection maximum fuse  
Type "2" coordination  
400 V [gG/gL 500 V]  
400 A

Short-circuit rating  
Short-circuit protection maximum fuse  
Type "2" coordination  
690 V [gG/gL 690 V]  
315 A

Short-circuit rating  
Short-circuit protection maximum fuse  
Type "2" coordination  
1000 V [gG/gL 1000 V]  
160 A

Short-circuit rating  
Short-circuit protection maximum fuse  
Type "1" coordination  
400 V [gG/gL 500 V]  
500 A

Short-circuit rating  
Short-circuit protection maximum fuse  
Type "1" coordination  
690 V [gG/gL 690 V]  
400 A

Short-circuit rating  
Short-circuit protection maximum fuse  
Type "1" coordination  
1000 V [gG/gL 1000 V]  
200 A

## AC

AC-1  
Rated operational current  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
Open  
at 40 °C [ $I_{th}=I_e$ ]  
490 A

AC-1  
Rated operational current  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
Open  
at 50 °C [ $I_{th}=I_e$ ]  
438 A

AC-1  
Rated operational current  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
Open  
at 55 °C [ $I_{th}=I_e$ ]  
418 A

AC-1  
Rated operational current  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
Open  
at 60 °C [ $I_{th}=I_e$ ]  
400 A

AC-1  
Rated operational current  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
enclosed [ $I_{th}$ ]  
315 A

AC-1  
Rated operational current  
Conventional free air thermal current, 3 pole, 50 - 60 Hz  
Notes  
At maximum permissible ambient air temperature.

AC-1  
Rated operational current  
Conventional free air thermal current, 1 pole  
Note  
at maximum permissible ambient air temperature

AC-1  
Rated operational current  
Conventional free air thermal current, 1 pole  
open [ $t_{th}$ ]  
875 A

AC-1  
Rated operational current  
Conventional free air thermal current, 1 pole  
enclosed [ $t_{th}$ ]  
785 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
Notes  
At maximum permissible ambient temperature (open.)

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
220 V 230 V [ $U_e$ ]  
300 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
240 V [ $U_e$ ]  
300 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
380 V 400 V [ $U_e$ ]  
300 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
415 V [ $U_e$ ]  
300 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
440V [ $U_e$ ]  
300 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
500 V [ $U_e$ ]  
300 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
660 V 690 V [ $U_e$ ]



185 A

AC-3  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
1000 V [ $I_b$ ]  
95 A

AC-3  
Motor rating [P]  
220 V 230 V [P]  
90 kW

AC-3  
Motor rating [P]  
240V [P]  
100 kW

AC-3  
Motor rating [P]  
380 V 400 V [P]  
160 kW

AC-3  
Motor rating [P]  
415 V [P]  
175 kW

AC-3  
Motor rating [P]  
440 V [P]  
185 kW

AC-3  
Motor rating [P]  
500 V [P]  
210 kW

AC-3  
Motor rating [P]  
660 V 690 V [P]  
170 kW

AC-3  
Motor rating [P]  
1000 V [P]  
132 kW

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
220 V 230 V [ $I_b$ ]  
240 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
240 V [ $I_b$ ]  
240 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz

380 V 400 V [I<sub>e</sub>]  
240 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
415 V [I<sub>e</sub>]  
240 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
440 V [I<sub>e</sub>]  
240 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
500 V [I<sub>e</sub>]  
240 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
660 V 690 V [I<sub>e</sub>]  
150 A

AC-4  
Rated operational current  
Open, 3-pole: 50 – 60 Hz  
1000 V [I<sub>e</sub>]  
76 A

AC-4  
Motor rating [P]  
220 V 230 V [P]  
75 kW

AC-4  
Motor rating [P]  
240 V [P]  
82 kW

AC-4  
Motor rating [P]  
380 V 400 V [P]  
132 kW

AC-4  
Motor rating [P]  
415 V [P]  
142 kW

AC-4  
Motor rating [P]  
440 V [P]  
150 kW

AC-4  
Motor rating [P]  
500 V [P]  
170 kW

AC-4  
Motor rating [P]  
660 V 690 V [P]  
137 kW

AC-4  
Motor rating [P]  
1000 V [P]  
108 kW

### Condensator operation

Individual compensation, rated operational current  $I_b$  of  
three-phase capacitors  
Open  
up to 525 V  
307 A

Individual compensation, rated operational current  $I_b$  of  
three-phase capacitors  
Open  
690 V  
177 A

Max. inrush current peak  
 $30 \times I_b$

Component lifespan [Operations]  
 $0.1 \times 10^6$

Max. operating frequency  
200 Ops/h

### DC

Rated operational current, open  
DC-1  
Notes  
see DILDC300/DILDC600 or on request

### Current heat loss

3 pole, at  $I_{th}$  (60°)  
37 W

Current heat loss at  $I_b$  to AC-3/400 V  
21 W

### Magnet systems

Voltage tolerance  
 $U_S$   
250 - 500 V 40-60 Hz  
250 - 700 V DC

Voltage tolerance  
AC operated [Pick-up]  
 $0.7 \times U_{Smin} - 1.15 \times U_{Smax}$

Voltage tolerance  
DC operated [Flick-up]  
 $0.7 \times U_{S\min} - 1.15 \times U_{S\max}$

Voltage tolerance  
AC operated [Drop-out]  
 $0.2 \times U_{S\max} - 0.6 \times U_{S\min}$

Voltage tolerance  
DC operated [Drop-out]  
 $0.2 \times U_{S\max} - 0.6 \times U_{S\min}$

Power consumption of the coil in a cold state and  $1.0 \times U_S$   
Note on power consumption  
Control transformer with  $u_k \leq 6\%$

Power consumption of the coil in a cold state and  $1.0 \times U_S$   
Full-in power [Flick-up]  
380 VA

Power consumption of the coil in a cold state and  $1.0 \times U_S$   
Full-in power [Flick-up]  
250 W

Power consumption of the coil in a cold state and  $1.0 \times U_S$   
Sealing power [Sealing]  
17.7 VA

Power consumption of the coil in a cold state and  $1.0 \times U_S$   
Sealing power [Sealing]  
10.8 W

Duty factor  
100 % DF

Changeover time at 100 %  $U_S$  (recommended value)  
Main contacts  
Closing delay  
100 ms

Changeover time at 100 %  $U_S$  (recommended value)  
Main contacts  
Opening delay  
110 ms

Behaviour in marginal and transitional conditions  
Sealing  
Voltage interruptions  
( $0 \dots 0.2 \times U_{C\min}$ )  $\leq 10$  ms  
Time is bridged successfully

Behaviour in marginal and transitional conditions  
Sealing  
Voltage interruptions  
( $0 \dots 0.2 \times U_{C\min}$ )  $> 10$  ms  
Drop-out of the contactor

Behaviour in marginal and transitional conditions  
Sealing

Voltage drops  
( $0.2 \dots 0.6 \times U_{c, \min}$ )  $\square$  12 ms  
Time is bridged successfully

Behaviour in marginal and transitional conditions  
Sealing  
Voltage drops  
( $0.2 \dots 0.6 \times U_{c, \min}$ )  $>$  12 ms  
Drop-out of the contactor

Behaviour in marginal and transitional conditions  
Sealing  
Voltage drops  
( $0.6 \dots 0.7 \times U_{c, \min}$ )  
Contactor remains switched on

Behaviour in marginal and transitional conditions  
Sealing  
Excess voltage  
( $1.15 \dots 1.3 \times U_{c, \max}$ )  
Contactor remains switched on

Behaviour in marginal and transitional conditions  
Sealing  
Pick-up phase  
( $0 \dots 0.7 \times U_{c, \min}$ )  
Contactor does not switch on

Behaviour in marginal and transitional conditions  
Sealing  
Pick-up phase  
( $0.7 \times U_{c, \min} \dots 1.15 \times U_{c, \max}$ )  
Contactor switches on with certainty

Admissible transitional contact resistance (of the external  
control circuit device when actuating A11)  
 $\square$  500 m $\Omega$

FLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2)  
High  
15 V

FLC signal level (A3 - A4) to IEC/EN 61131-2 (type 2)  
Low  
5 V

### Electromagnetic compatibility (EMC)

Electromagnetic compatibility  
This product is designed for operation in industrial  
environments (environment A). Its use in residential  
environments (environment B) may cause radio-frequency  
interference, requiring additional noise suppression  
measures.

### Rating data for approved types

Switching capacity  
Maximum motor rating  
Three-phase  
200 V  
208 V  
100 HP

Switching capacity  
Maximum motor rating  
Three-phase  
230 V  
240 V  
125 HP

Switching capacity  
Maximum motor rating  
Three-phase  
460 V  
480 V  
250 HP

Switching capacity  
Maximum motor rating  
Three-phase  
575 V  
600 V  
300 HP

Switching capacity  
General use  
350 A

Auxiliary contacts  
Flot Duty  
AC operated  
A600

Auxiliary contacts  
Flot Duty  
DC operated  
P300

Auxiliary contacts  
General Use  
AC  
600 V

Auxiliary contacts  
General Use  
AC  
15 A

Auxiliary contacts  
General Use  
DC  
250 V

Auxiliary contacts  
General Use  
DC  
1 A

Short Circuit Current Rating  
Basic Rating  
SCCR  
18 kA

Short Circuit Current Rating  
Basic Rating  
max. Fuse

700 A

Short Circuit Current Rating  
Basic Rating  
max. CB  
600 A

Short Circuit Current Rating  
480 V High Fault  
SCCR (fuse)  
18 kA

Short Circuit Current Rating  
480 V High Fault  
max. Fuse  
700 Class L A

Short Circuit Current Rating  
480 V High Fault  
SCCR (CB)  
65 kA

Short Circuit Current Rating  
480 V High Fault  
max. CB  
250 A

Short Circuit Current Rating  
600 V High Fault  
SCCR (fuse)  
18 kA

Short Circuit Current Rating  
600 V High Fault  
max. Fuse  
700 Class J A

Short Circuit Current Rating  
600 V High Fault  
SCCR (CB)  
18 kA

Short Circuit Current Rating  
600 V High Fault  
max. CB  
600 A

Special Purpose Ratings  
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)  
LRA 480V 60Hz 3phase  
2160 A

Special Purpose Ratings  
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)  
FLA 480V 60Hz 3phase  
360 A

Special Purpose Ratings  
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)  
LRA 600V 60Hz 3phase  
1800 A

Special Purpose Ratings  
Definite Purpose Ratings (100,000 cycles acc. to UL 1995)  
FLA 600V 60Hz 3phase  
300 A

## DESIGN VERIFICATION AS PER IEC/EN 61439

### Technical data for design verification

Rated operational current for specified heat dissipation [ $I_r$ ]  
300 A

Heat dissipation per pole, current-dependent [ $P_{vd}$ ]  
7 W

Equipment heat dissipation, current-dependent [ $P_{vd}$ ]  
0 W

Static heat dissipation, non-current-dependent [ $P_{vs}$ ]  
10.8 W

Heat dissipation capacity [ $P_{diss}$ ]  
0 W

Operating ambient temperature min.  
-40 °C

Operating ambient temperature max.  
+60 °C

### IEC/EN 61439 design verification

10.2 Strength of materials and parts  
10.2.2 Corrosion resistance  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.1 Verification of thermal stability of enclosures  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.2 Verification of resistance of insulating materials to normal heat  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.3.3 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects  
Meets the product standard's requirements.

10.2 Strength of materials and parts  
10.2.4 Resistance to ultra-violet (UV) radiation  
Meets the product standard's requirements.



10.2 Strength of materials and parts  
10.2.5 Lifting  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts  
10.2.6 Mechanical impact  
Does not apply, since the entire switchgear needs to be evaluated.

10.2 Strength of materials and parts  
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 Insulation properties  
10.9.2 Power-frequency electric strength  
Is the panel builder's responsibility.

10.9 Insulation properties  
10.9.3 Impulse withstand voltage  
Is the panel builder's responsibility.

10.9 Insulation properties  
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 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  $U_s$  at AC 50HZ  
250 - 500 V

Rated control supply voltage  $U_s$  at AC 60HZ  
250 - 500 V

Rated control supply voltage  $U_s$  at DC  
0 - 0 V

Voltage type for actuating  
AC

Rated operation current  $I_e$  at AC-1, 400 V  
490 A

Rated operation current  $I_e$  at AC-3, 400 V  
300 A

Rated operation power at AC-3, 400 V  
160 kW

Rated operation current  $I_e$  at AC-4, 400 V  
240 A

Rated operation power at AC-4, 400 V  
132 kW

Rated operation power NEMA  
186 kW

Modular version  
No

Number of auxiliary contacts as normally open contact  
2

Number of auxiliary contacts as normally closed contact  
2

Type of electrical connection of main circuit  
Rail connection

Number of normally closed contacts as main contact  
0

Number of main contacts as normally open contact  
3

## APPROVALS

Product Standards  
IEC/EN 60947-4-1; UL 60947-4-1; CSA - C22.2 No. 60947-4-1-14; CE marking

UL File No.  
E29096

UL Category Control No.  
NLDX

CSA File No.  
1017510

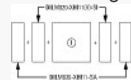
CSA Class No.  
3211-04

North America Certification  
UL listed, CSA certified

Specially designed for North America  
No

## CHARACTERISTICS

Side mounting auxiliary contacts



possible variants at auxiliary contact module fitting options  
on the side: 2 x DILM820-XH11(V)-SI; 2 x DILM820-XH11-SA

Characteristic curve



Normal switching duty  
Normal AC induction motor  
Operating characteristics  
Switch on: from stop  
Switch off: during run  
Electrical characteristics:  
Switch on: up to 6 x Rated motor current  
Switch off: up to 1 x Rated motor current

Utility category  
100 % AC-3  
Typical Applications  
Compressors  
Lifts  
Mixers  
Pumps  
Escalators  
Agitators  
fan  
Conveyor belts  
Centrifuges  
Hinged flaps  
Bucket-elevator  
Air-conditioning systems  
General drives for manufacturing and processing machines

Characteristic curve

Extreme switching duty  
Squirrel-cage motor  
Operating characteristics  
Inching, plugging, reversing  
Electrical characteristics  
Make: up to 6 x rated motor current  
Break: up to 6 x rated motor current  
Utilization category  
100 % AC-4  
Typical applications  
Printing presses  
Wire-drawing machines  
Centrifuges  
Special drives for manufacturing and processing machines

Characteristic curve

Switching conditions for 3 pole, non-motor loads  
Operating characteristics  
Non inductive and slightly inductive loads  
Electrical characteristics  
Switch on: 1 x rated operational current  
Switch off: 1 x rated operational current  
Utilization category  
100 % AC-1  
Typical examples of application  
Electric heat

Characteristic curve

Short-time loading, 3-pole  
Time interval between two loading cycles: 15 minutes

## DIMENSIONS

- DILM20-XH11(V)-SI
- DILM20-XH11-SA

