

Definite Purpose Contactors DP 25 to DP 50

Introduction

Definite Purpose Contactors are designed for various HVAC applications where a reduced number of electrical operations is

experienced. During a normal life time of the given application.

Features

Danfoss Definite Purpose Contactors Type DP 25 - DP 40 (2-pole) and type DP 25 - DP 50 (3-pole) features:

- 25 - 50 FLA
- Compact design
- Screw or DIN-rail mounting
- Snap on auxiliary contact blocks
Auxiliary contact blocks are available in normally open, normally closed.

Typical applications

- Compressor start
- Heating loads
- Pump start
- Fan start

Life time


The mechanical life time of DP 25-30-40 is 10 million operations and 5 million operations for DP 50, in no way limiting the applications for the DP range.

reduced number of operations is experienced during a normal life time of a given application.

The electrical life time of Definite Purpose contactors is determined to be shorter than the electrical life time of our CI range because the DP series is dedicated to applications where a

Provided that the LRA is 6 times the FLA, the electrical life time is roughly 200.000 - 250.000 operations.

Approvals

DP 25, DP 30, DP 40, DP 50
 CSA, Canada, LR-17255
 USA, E63581

Ordering Definite Purpose Contactors

Poles	FLA	Type	1 Phase	3 Phase			AC1 (I _m) A	Code no.
			240 V LRA	240 V LRA	400 - 480 V LRA	600 V LRA		
2	25	DP 25-2	150				30	037H4151
	30	DP 30-2	180				40	037H4152
	40	DP 40-2	240				50	037H4157
3	25	DP 25C-3		150	125	100	30	037H4150
	30	DP 30-3		180	150	120	40	037H4154
	40	DP 40-3		240	200	160	50	037H4156
	50	DP 50-3		300	250	200	63	037H4159

Coil voltage a.c.¹⁾ (coil table)

Voltage at 50 Hz	24	110	220
Voltage at 60 Hz	24	110	220
Appendix no.	13	23	32

¹⁾ Other coil voltage; contact Danfoss

Method of ordering

DP contacts are packed as industrial pack.
Minimum order size of DP 25-40 is 25 pieces
minimum order size of DP 50 is 10 pieces
Contactors can be ordered in two ways:

1. By stating type and code number followed by the coil voltage and frequency required.
2. By stating the type and code number followed by a two-digit appendix no. from above coil table

Ordering spare coils for contactors

Coil voltage		Coils for DP 25 to DP 40C			Coils for DP 50		
60 Hz	50 Hz	In Rush Power	Hold Power	Code no.	In Rush Power	Hold Power	Code no.
24	24	75 VA	9 VA	037H6484	140 VA	11 VA	037H6084
110	110			037H6487			037H6087
220	220	65 W	2.7 W	037H6488			80 W

Ordering auxiliary contact blocks

Applicable for types DP 25 to DP 50

Type	Function	Colour code	Max. load	Code no.
CB-NO	Make	Green	6A	037H0111
CB-NC	Break	Red	500 V a.c.; 500 VA	037H0112

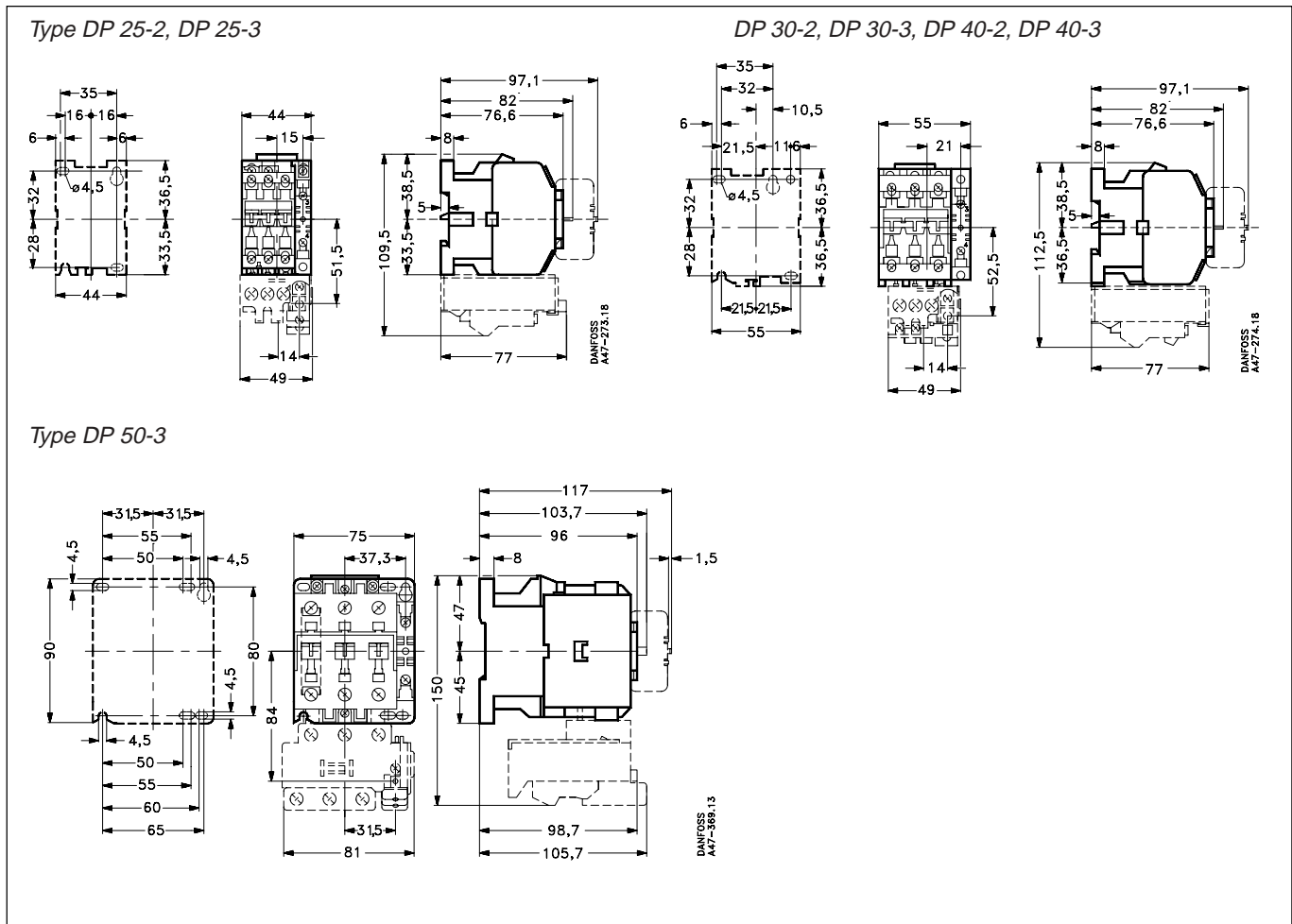
Ordering and technical data of thermal overload relays and accessories

Thermal overload relays types TI 25C - 30C and TI 80

Type	Range	Max. mains fuse				Fit onto contactor type	3-pole Code no.
		gl, gL, gG		BS 88, type T			
	Motor starter A	Type 1 A	Type 2 A	Type 1 A	Type 2 A		
TI 25C	15 to 20	80	35	80	40	DP 25C to DP 30	047H0213
TI 25C	19 to 25	80	63	80	63		047H0214
TI 30C	24 to 32	80	63	80	63	DP 50	047H0215
TI 80	30 to 45	125	100	125	100		047H1015
TI 80	42 to 63		100		100		047H1016

Accessories

	Pcs.	Code no.
3-pole connection bridge for DP 25 single phase load [^]	50	037H0104
3-pole connection bridge for DP 30 - DP 40 single phase load [^]	50	037H0103
Base for separate mounting of TI 80	1	037H0456
Busbar set for DP 50	1	037H0108



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