

Direct-on-line starters with AF Contactors – Enclosed version

DRAF09 ... DRAF16

Up to 7.5 kW, protected by overload relays, AC/DC operated



Description

Enclosed direct-on-line (DOL) starters are used for controlling 3-phase asynchronous motors up to 690 V AC.

Each starter is delivered assembled and wired. It contains:

- IP66 and type 4X plastic enclosure with double insulation, equipped with:
- 1 green flush 'I' ON button and 1 red protruding 'O' OFF/RESET button
- 4 cable inlets and outlets via knockouts.
- 1 AF 3-pole contactor with holding contact
- 1 CB510 start contact block
- 1 PE and 1 neutral terminal.

3 versions of control supply wiring are available: phase-to-phase, separate supply or phase-to-neutral.

TF42 thermal overload relay to be ordered separately and selected according to motor's nominal current (see selection on page 519 in the **Thermal and electronic overload relays** chapter).

EF19 electronic overload relays can also be selected (not suitable for single-phase loads)

DRAF enclosed DOL starters

IEC - AC-3					Control supply wiring	Rated control circuit voltage Uc min ... Uc max ⁽¹⁾	Factory code	Order code
Rated operational power								
220 V 230 V 240 V	380 V 400 V	500 V	690 V	max. current θ ≤ 40 °C Ue=400 V				
kW	kW	kW	kW	A		V AC/DC		
IEC starters type								
2.2	4	5.5	5.5	9	Separate supply	24...60 / 20...60	1SBK134237R1100	DRAF09-11S
					Phase-to-neutral	100...250	1SBK134137R1300	DRAF09-13N
					Phase-to-phase	250...500	1SBK134037R1400	DRAF09-14P
3	5.5	7.5	7.5	12	Separate supply	24...60 / 20...60	1SBK154237R1100	DRAF12-11S
					Phase-to-neutral	100...250	1SBK154137R1300	DRAF12-13N
					Phase-to-phase	250...500	1SBK154037R1400	DRAF12-14P
4	7.5	9	9	18	Separate supply	24...60 / 20...60	1SBK174237R1100	DRAF16-11S
					Phase-to-neutral	100...250	1SBK174137R1300	DRAF16-13N
					Phase-to-phase	250...500	1SBK174037R1400	DRAF16-14P

1) Select DRAF..S with separate supply for 24...60 V DC control circuit voltage (change A2 - Us wire to blue color acc. to IEC 60947-4-1).