

For machine or wall mounting

Main applications

Control of stand alone motors like for heat pumps, air conditioning units, small machine tools, compressors, pumping, irrigation...



ABB DRAF enclosed direct-on-line starters

Contact us

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<http://www.abb.com/lowvoltage>

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DRAF enclosed
direct-on-line starters

DRAF enclosed DOL starters

Experience reliable and easy to install motor starting

Improve installation efficiency

- Easy to connect and to operate
- Pre-wired control circuit and easy to follow wiring instructions
- Coil energy consumption down by 80%.

Reliable in harsh condition

- High number of electrical and mechanical operations
- Robust IP66 and type 4X enclosure
- Double electrical insulation.

Continuous operation

- AF contactors manage voltage fluctuation, chattering free
- Protected motor with thermal overload relay
- Safety through coordinated product.

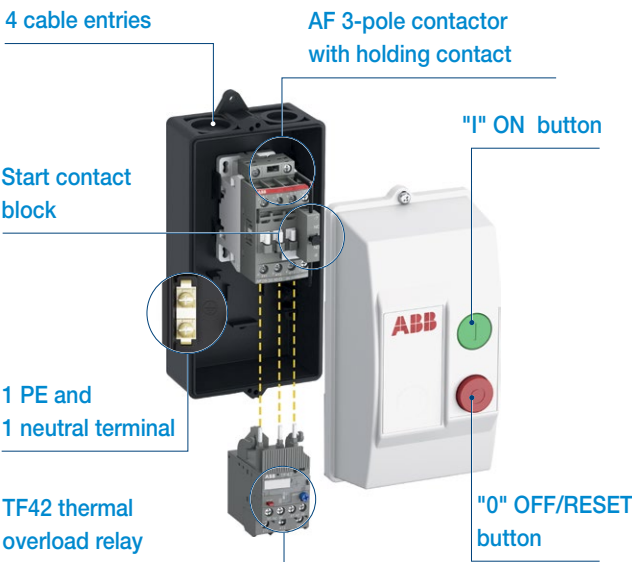


ABB DRAF enclosed direct-on-line starters

DRAF enclosed direct-on-line starters

IEC - AC-3				Rated control circuit voltage U_c min... U_c max.	Type	Order code
Rated operational power	220 V	380 V	500 V			
	230 V	400 V		max. current $I_c \leq 40$ A $U_e=400$ V		
	240 V					
kW	kW	kW	A	V 50/60 Hz		
2.2	4	5.5	9	24...60	DRAF09-11S	1SBK134237R1100
				100...250	DRAF09-13N	1SBK134137R1300
				250...500	DRAF09-14P	1SBK134037R1400
3	5.5	7.5	12	24...60	DRAF12-11S	1SBK154237R1100
				100...250	DRAF12-13N	1SBK154137R1300
				250...500	DRAF12-14P	1SBK154037R1400
4	7.5	9	18	24...60	DRAF16-11S	1SBK174237R1100
				100...250	DRAF16-13N	1SBK174137R1300
				250...500	DRAF16-14P	1SBK174037R1400

Weight: 0.820 kg / pce.

IEC UL version available, please consult us.

TF42 thermal overload relays (to be ordered separately)

Trip class 10

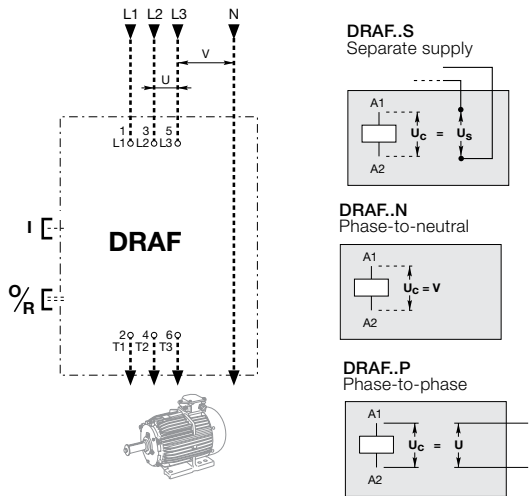
Setting range	Short-circuit protective device	Type	Order code	Weight (1 pce)
A				kg
Fuse type T				
0.10...0.13	0.5 A	TF42-0.13	1SAZ721201R1005	0.130
0.13...0.17	1.0 A	TF42-0.17	1SAZ721201R1008	0.130
0.17...0.23		TF42-0.23	1SAZ721201R1009	0.130
0.23...0.31		TF42-0.31	1SAZ721201R1013	0.130
Fuse type gG				
0.31...0.41	2.0 A	TF42-0.41	1SAZ721201R1014	0.130
0.41...0.55		TF42-0.55	1SAZ721201R1017	0.130
0.55...0.74	4.0 A	TF42-0.74	1SAZ721201R1021	0.130
0.74...1.00	6.0 A	TF42-1.0	1SAZ721201R1023	0.130
1.00...1.30		TF42-1.3	1SAZ721201R1025	0.130
1.30...1.70	10.0 A	TF42-1.7	1SAZ721201R1028	0.130
1.70...2.30		TF42-2.3	1SAZ721201R1031	0.130
2.30...3.10		TF42-3.1	1SAZ721201R1033	0.130
3.10...4.20	20.0 A	TF42-4.2	1SAZ721201R1035	0.130
4.20...5.70		TF42-5.7	1SAZ721201R1038	0.130
5.70...7.60	35.0 A	TF42-7.6	1SAZ721201R1040	0.130
7.60...10.0		TF42-10	1SAZ721201R1043	0.130
10.0...13.0	40.0 A	TF42-13	1SAZ721201R1045	0.130
13.0...16.0		TF42-16	1SAZ721201R1047	0.130
16.0...20.0	63.0 A	TF42-20	1SAZ721201R1049	0.145

Empty enclosure with push-button

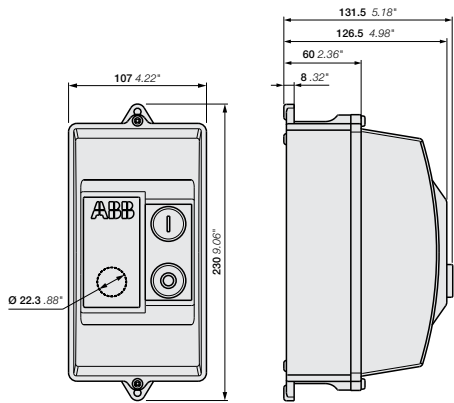
mm cable inlet/outlet IEC	FR16AF-12	1SBN101337R1000	0.53
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Control supply wiring versions



Main dimensions mm, inches



DRAF09, DRAF12, DRAF16

IEC starter types - ISO M20

Cable inlet	Cable outlet
Enclosure top	Enclosure bottom
2 x Ø 20 mm	2 x Ø 20 mm
2 x Ø 0.79"	2 x Ø 0.79"

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