

MOTOR STARTER TYPE RS

For direct connecting/disconnecting the one-phase and three-phase motors. Provides overload- and under-voltage protection and is equipped with a switch-on signalling.

Type	Part No.	Supply voltage [V]; 50 Hz	Motor rate [kW]	Current range [A]	
RS-3,7-1	816R01	230	0,37	2,6–3,7	
RS-5,5-1	816R02	230	0,55	3,7–5,5	
RS-8-1	816R05	230	1,1	5,5–8	
RS-2,6-3	816R15	3x400	0,75	1,8–2,6	
RS-1,8-3	816R10	3x400	0,55	0,8–1,2	
RS-3,7-3	816R11	3x400	1,1	2,6–3,7	
RS-5,5-3	816R12	3x400	1,5	3,7–5,5	
RS-8-3	816R14	3x400	2,2–3,0	5,5–8	
RS-14-3	816R21	3x400	5,5	10–14	
RS-16-3	816R20	3x400	7,5	12–16	
IP 65	RS-11,5-3	816R18	3x400	4,0	8–11,5

**INVERTER TYPE FA/3**

For speed control of the fans with three-phase motors. It is possible to program it for the application specified by Customer.

Type	Part No.	Motor rate [kW]	Supply voltage [V]; 50 Hz	Max. continuous output current [A]
FA/3/0,75	816F13	0,55–0,75	3x400	2,2
FA/3/1,1/1,5	816F14	1,1–1,5	3x400	3,7
FA/3/2,2	816F15	2,2	3x400	5,1
FA/3/3,0	816F16	3,0	3x400	7,2
FA/3/5,5	816F17	5,5	3x400	12
FA/3/7,5	816F18	7,5	3x400	16
FA/3/12/15	816F19	12,0–15,0	3x400	30,5
FA/3/18,5	816F20	18,5	3x400	37
IP 54	FA/3/22,0	22,0	3x400	43,5

**SAFETY SWITCH TYPE IS**

To disconnect the supply circuit of one-phase or three-phase motors of rated current up to 16A. It is possible to block the setting wheel in position 0-OFF. It is suggested to install it close to the fan.

Type	Part No.	Supply voltage [V]; 50 Hz	Current range [A]	
IS 16A/7,5 kW	843W30	230/3x400	0–16	
IS Ex 16A/7,5 kW	843W70	3x400	0–16	
IS Y/D 16A/7,5kW	843W71	3x400	0–16	
IS Ex Y/D 16A/7,5 kW	843W72	3x400	0–16	
IS EMC 16A/7,5 kW	843W73	3x400	0–16	
IS 25A/11 kW	843W74	3x400	0–25	
IS Ex 25A/11 kW	843W75	3x400	0–25	
IS Y/D 25A/11 kW	843W76	3x400	0–25	
IS Ex Y/D 25A/11 kW	843W77	3x400	0–25	
IS EMC 25A/11 kW	843W78	3x400	0–25	
IS 40A/18,5 kW	843W79	3x400	0–40	
IS Ex 40A/18,5 kW	843W80	3x400	0–40	
IS Y/D 40A/18,5 kW	843W81	3x400	0–40	
IS Ex Y/D 40A/18,5 kW	843W82	3x400	0–40	
IS EMC 40A/18,5 kW	843W83	3x400	0–40	
IS 63A/22 kW	843W84	3x400	0–63	
IS Ex 63A/22 kW	843W85	3x400	0–63	
IS Y/D 63A/22 kW	843W86	3x400	0–63	
IS Ex Y/D 63A/22 kW	843W87	3x400	0–63	
IP 55	IS EMC 63A/22kW	843W88	3x400	0–63

**MOTOR START TYPE ŁS 1**

For direct connecting/disconnecting the one-phase or three-phase motors, of rated current up to 16A. The motor start does not provide protective functions.

Type	Part No.	Supply voltage [V]; 50 Hz	Current range [A]
ŁS-1	816Ł01	230/3x400	0–16

SPEED GOVERNOR TYPE RP

For voltage speed control of the fans with one-phase motors. Short-circuit protection and kickstart function.

Type	Part No.	Supply voltage [V]; 50 Hz	Current range [A]	Motor rate [kW]
RP-5-K	811R05	230	0,5–6	0,37–0,55
RP-10-K	811R06	230	0,5–10	0,75–1,1



POTENTIOMETER

The potentiometer enables setting of the requested value of rotational speed for fans equipped with motors that are EC electronically commutated.

	Type	Part No.	Supply voltage [V]; 50–60 Hz	Output	Output setting		Remarks
					min.	max.	
	P-EC	840P99	230	analogue signal, 1–10 VDC, 2–20 mA or PWM (with constant frequency 5 kHz)	1–7 VDC/2–14 mA/ 10–70%	3–10 VDC/6–20 mA/ 30–100%	built-in switch with function ON / OFF, wall installing

CONTROL UNIT FOR REMOTE CONTROL OF THE FAN ZE-Z

	Type	Part No.	Supply voltage [V]; 50 Hz	Motor rate [kW]	Current range of thermal protection [A]	Devices to work with
	ZE-Z1-4	816Z80	230	0,37	2,5–4	WPA-3-(E, S)-1-N,
	ZE-Z1-6,3	816Z81	230	0,55	4–6,3	WPA-5-(D, E, S)-1-N, WPA-6-(D, E, S)-1-N
	ZE-Z1-10	816Z82	230	1,1	6,3–10	WPA-7-(D, E, S)-1-N
	ZE-Z3-1,6	816Z75	3x400	0,55	1–1,6	WPA-5-(D, E, S)-3-N
	ZE-Z3-2,5	816Z85	3x400	0,75	1,6–2,5	WPA-6-(D, E, S)-3-N
	ZE-Z3-4	816Z86	3x400	1,1	2,5–4	WPA-7-(D, E, S)-3-N WPA-8-(D, E, S)-3-N
	ZE-Z3-6,3	816Z87	3x400	2,2	4–6,3	WPA-9-(D, E, S)-3-N
	ZE-Z3-10	816Z88	3x400	3,0–4,0	6,3–10	WPA-10-(D, E, S)-3-N
	ZE-Z3-13-Y/D	816z03	3x400	5,5	9–13	WPA-11-(D, E, S)-3-N
	ZE-Z3-17-Y/D	816z04	3x400	7,5	11–17	WPA-13-(D, E, S)-3-N
	ZE-Z3-32-Y/D	816z05	3x400	15	22–32	WPA-14-S-3-N

ZE-Z type control unit is designed for installing in the garage room or other room, indicated by User.

Is equipped with a control mode switch, with positions:

- 0 – control switched off,
- L – local control,
- Z – remote control.

Local control (L) – to start the fan from the ZE-Z control unit, by pressing the green pushbutton "START", whereas the red pushbutton "STOP" switches it off.

Remote control (Z) – switches on the fan by means of the auxiliary control units ZP-1/24V, ZP-2/24V or through radio, by means of a radio transmitter and radio receiver (exhaust extractors with balancer).

Control unit, depending on the motor rate, is equipped with an adequately selected motor disconnector and contactor. The control unit is provided with short-circuit, thermal protection.

Control units used to operate the fans of motor rate above 5 kW provide a soft start of the fan by means of a star-delta starting system.

AUXILIARY CONTROL UNITS TYPE ZP-1/24V AND ZP-2/24V

Supporting control units Type ZP-1/24V and ZP-2/24V – designed for remote control, manual control, cable control of the fan, from the chosen place. They work with control units ZE-SSAK and ZE-Z. The control mode switch in the control unit must be set into position (Z) – remote control.			
	Type	Part No.	Remarks
ZP-1/24V	811Z02	Provides possibility of controlling the fan function from another selected place: button "start" – Normally Open contact (NO), button "stop" – Normally Closed contact (NC), signalling lamp z4V.	
	ZP-2/24V	811Z03	Provides possibility of controlling the fan function from another selected place, switch by a Normally Open contact (NO) and a signalling lamp.