



09123E00

### Reversing Starter max. 4 kW / 400 V Serie 8510

- Explosion protection according to
  - CENELEC
  - IEC
- For use in Zone 1 and Zone 2
- For use in Ex e-enclosure



#### Selection Table

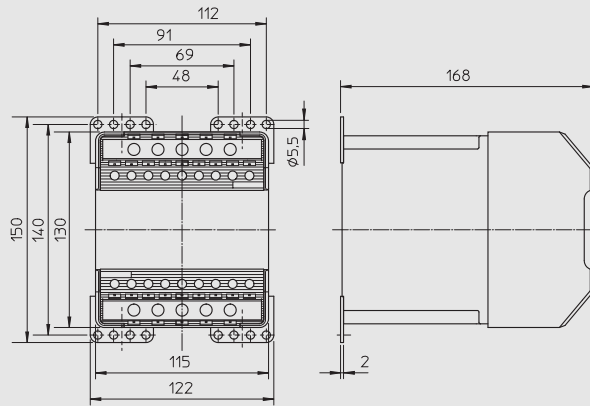
Version	Circuit diagram	Rated operating voltage	Order number	Weight kg
Reversing starter with 4 NO auxiliary contacts		Please specify on order	<b>8510/132-08-134-...0</b>	2.600

#### Order number supplement

Rated operating voltage	AC: 24 V, 50 Hz / 60 Hz	<b>8510/.....-01.</b>
	AC: 42 V, 50 Hz / 60 Hz	<b>8510/.....-02.</b>
	* AC: 110 V, 50 Hz / 60 Hz	<b>8510/.....-03.</b>
	AC: 220 V / 230 V, 50 Hz / 60 Hz	<b>8510/.....-04.</b>
	AC: 380 V / 400 V, 50 Hz / 60 Hz	<b>8510/.....-05.</b>
	AC: 500 V, 50 Hz / 60 Hz	<b>8510/.....-06.</b>
	* AC: 230 V / 240 V, 50 Hz / 60 Hz	<b>8510/.....-07.</b>
	AC: 400 V / 415 V, 50 Hz / 60 Hz	<b>8510/.....-08.</b>
	* DC: 24 V	<b>8510/.....-21.</b>
	DC: 12 V	<b>8510/.....-22.</b>
	* DC: 48 V	<b>8510/.....-23.</b>
	DC: 110 V	<b>8510/.....-24.</b>
	DC: 200 V	<b>8510/.....-25.</b>
	DC: 230 V	<b>8510/.....-26.</b>
DC: 240 V	<b>8510/.....-27.</b>	

\* Preferred voltage

Technical Data											
Explosion protection	 II 2G Ex de IIC  I M2 Ex de I										
Certificates	DMT 00 ATEX E 073 U										
Other certificates	IECEX, Canada (CSA), Belarus (Promatomnadzor)										
Ambient temperature											
Storage	- 50 °C ... + 80 °C										
Operation at U <sub>c</sub>	- 20 °C ... + 40 °C										
Main circuit											
Rated operational voltage	max. 690 V										
Rated operational frequency	50 Hz / 60 Hz										
Conventional thermal current I <sub>th</sub>	25 A (Ē ≤ 50 °C)										
Short circuit protection	Via fuse: 25 A gL for U ≤ 440 V 20 A gL for U > 400 V										
Switching capacity	Rated powers of three-phase motors 50 Hz / 60 Hz, according to AC3 <table border="1" style="margin-left: 20px;"> <tr> <td>U<sub>e</sub> [V]</td> <td>220 / 230</td> <td>380 / 415</td> <td>440 / 500</td> <td>660 / 690</td> </tr> <tr> <td>P [kW]</td> <td>2.2</td> <td>4</td> <td>4</td> <td>4</td> </tr> </table>	U <sub>e</sub> [V]	220 / 230	380 / 415	440 / 500	660 / 690	P [kW]	2.2	4	4	4
U <sub>e</sub> [V]	220 / 230	380 / 415	440 / 500	660 / 690							
P [kW]	2.2	4	4	4							
Auxiliary switch											
Conventional thermal current I <sub>th</sub>	10 A										
Short circuit protection	via fuse: 10 A gL; acc. to VDE 0660 / IEC 60947										
Switching capacity	AC15: 6 A / 500 V										
Control circuit											
AC											
Rated operating voltage	U <sub>c</sub> 50 Hz / 60 Hz: 24 V ... 500 V										
Operation range	Coil (Ē ≤ 50 °C) 50 Hz: 0.8 ... 1.15 U <sub>c</sub> 60 Hz at 50 °C: 0.85 ... 1.1 U <sub>c</sub>										
Drop out value	Coil (Ē ≤ 50 °C) ≥ 0.2 U <sub>c</sub>										
Average power input	at U <sub>c</sub> and 20 °C Pick-up: 70 VA Hold: 4.5 VA										
DC											
Rated operating voltage	U <sub>c</sub> : 12 V ... 250 V										
Operation range	Coil (Ē ≤ 50 °C) 0.8 ... 1.15 U <sub>c</sub>										
Drop out value	Coil (Ē ≤ 50 °C) ≥ 0.1 U <sub>c</sub>										
Average power consumption	at U <sub>c</sub> and 20 °C Pick-up: 3 W Hold: 3 W										
Mechanical service life	at U <sub>c</sub> : 10 Mio. switching cycles										
Maximum switching frequency	3600 switching cycles per hour										
Conductor cross section											
Main contacts	1.5 ... 6 mm <sup>2</sup> finely stranded 1.5 ... 10 mm <sup>2</sup> solid										
Auxiliary contacts	0.75 ... 1.5 mm <sup>2</sup> finely stranded 0.75 ... 2.5 mm <sup>2</sup> solid										
Material											
Enclosure material	Epoxy resin										
Terminal cover	Polyamide; IP20, finger-contact safety according to IEC 60 529										

**Dimensional Drawings (All Dimensions in mm) - Subject to Alterations**

07840E00

**8510/132**

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.