

Load disconnect switches and motor starters

Molded case circuit breaker for motor protection



8146/5-V27-401-145-02-41-1 Art. No. 249251



- Conductor and system protection for Ex e and Ex d motors
- Robust enclosure made of glass fibre reinforced polyester resin
- Optional: Undervoltage release, shunt trip, ammeter, auxiliary contact

MY R. STAHL 8146N



R. STAHL Series 8146/5-V27 moulded case circuit breakers for motor protection protect Ex e and Ex d motors as well as the associated conductors and systems. The standard versions feature an adjustable, phase-sensitive thermal overcurrent release or an electromagnetic quick release, which has to be specified during the ordering process. They cannot be retrofitted.

Technical Data

Explosion Protection

Area of application	European Union (ATEX) IECEX
Application range (zones)	1, 2, 21, 22
IECEX gas certificate	IECEX PTB 06.0090
IECEX gas explosion protection	Ex db eb IIC T5 Gb
IECEX dust certificate	IECEX PTB 06.0090
IECEX dust explosion protection	Ex tb IIIC T95 °C Db
ATEX gas certificate	PTB 01 ATEX 1024
ATEX gas explosion protection	⊕ II 2 G Ex db eb IIC T5 Gb
ATEX dust certificate	PTB 01 ATEX 1024
ATEX dust explosion protection	⊕ II 2 D Ex tb IIIC T95 °C Db
Certificates	ATEX (PTB), Canada (FM), China (NEPSI), IECEX (PTB), India (PESO)
Declaration of conformity	ATEX (EUK), China (CCC)

Electrical Data

Frequency range	50 – 60 Hz
Release	without
AC release voltage	-
Current-setting range	20 – 22.5 A
Auxiliary contacts	1 NO 1 NC
No. of poles	3

Ambient Conditions

Ambient temperature	-20°C ... +40°C
Ambient temperature	-4 °F ... +104 °F

Mechanical Data

Degree of protection (IP)	IP66
Degree of protection note	according to EN/IEC 60529

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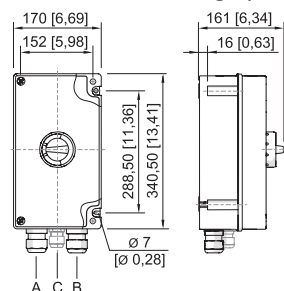
Mechanical Data

Enclosure material	Polyester resin, Glass fibre reinforced
Min. solid conn. cr.-sect. AWG	AWG 20
Max. connection cross section, solid AWG	AWG 8
Min. f.stra. con. cr.-sec. AWG	AWG 20
Width	170 mm
Width, inches	6.69 in
Height	340.5 mm
Height in inches	13.41 in
Depth	131 mm
Depth in inches	5.16 in
Handle colour	Black
Protective collar colour	Black
Rotary actuator labelling	0 - I
Seal	Silicone, foamed
Lockable in	Three times in 0 position
Weight	4.25 kg

Components

Cable glands and entries	2 x M32 Ø 9 ... 21 mm 1 x M25 Ø 7 ... 17 mm
Type of screw connection	8161

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



Current-setting range 16 to 20 A and 20 to 22.5 A;
with/without auxiliary contacts

Cable entries

Version	Auxiliary con- tacts	Cable glands Series 8161		Stopping plugs Series 8290
		M25 x 1.5	M32 x 1.5	M25 x 1.5
Current-setting range up to 16 A	without	A, B	--	C
	with	A, B, C	--	--
Current-setting range 16 to 20 A, 20 to 22.5 A	without	--	A, B	C
	with	C	A, B	--

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