SIEMENS

Data sheet

3RQ3065-2SM30



Output coupler Optocoupler 1 NO, Transistor, 24 V DC Output max. 30 V DC, 5 A short circuit-proof with M-0-A switch Spring-type terminal (push-in) Overall width 6.2 mm Thermal current 5A

product category SIRUS 3RQ3 coupling relays in slim design product designation Coupling relays with semiconductor output (not plug-in) design of the product Output coupling link product type designation 3RQ3 General technical data Image: Component • relay output No • semi-conductor output Yes consumed active power 0.3 W Single or overvoltage category III according to IEC 60064 rower/outputs or stell value 2.5 kV protection class IP IP20 shock resistance 6 150 Hz: 2 g switching frequency 100 Hz • acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81366-2 K Control supply voltage at DC 1 • initial value 1 • ated value 0.2 ms OFF delay time 0.3 ms • ated value 0.3 ms OFF delay time 0.3 ms product component plug-in socket NO <t< th=""><th>product brand name</th><th>SIRIUS</th></t<>	product brand name	SIRIUS
product designation Coupling relays with semiconductor output (not plug-in) design of the product Output coupling link product type designation 3RQ3 General tochnical data	•	SIRIUS 3RQ3 coupling relays in slim design
design of the product Output coupling link product type designation 3RQ3 Ceneral technical data display version LED yes Yes product component No • relay output No • semi-conductor output Yes Consumed active power 0.3 W Insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 50 V Surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance 6 150 Hz: 2 g • acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control supply voltage at DC 11 30 V operating range factor control supply voltage rated 1 value at DC 1 • initial value 1 • full-scale value 0.2 ms OFF delay time 0.3 ms product component plug-in socket No		
product type designation 3RQ3 General tochnical data		
display version LED Yes product component No • relay output No • semi-conductor output Yes consumed active power 0.3 W insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 50 V surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance e.acc. to IEC 60068-2-27 • acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control supply voltage at DC 11 30 V operating range factor control supply voltage rated 1 value at DC 1 • initial value 1 • tull-scale value 1 • atDC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1		
product component • relay output No • semi-conductor output Yes consumed active power 0.3 W insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 50 V surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance sinusoidal half-wave 15g / 11 ms • acc. to IEC 60068-2-67 sinusoidal half-wave 15g / 11 ms vibration resistance 6 150 Hz: 2 g • acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control dircult Control Control furcule • iated value 11 30 V operating range factor control supply voltage rated value 1 • initial value 1 • initial value 1 • at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxillary circuit 1 type of switching contact NO contact number of NO contact for auxiliary contacts 1	General technical data	
• relay output No • semi-conductor output Yes consumed active power 0.3 W insultation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 50 V surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance insultation voltage for overvoltage category III according to acc. to IEC 60068-2-27 vibration resistance 6 • acc. to IEC 60068-2-6 6 • acc. to IEC 60068-2-7 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control 1 • rated value 1 • initial value 1 • initial value 1 • initial value 1 • iuli-scale value 1 • iuli-scale value 1 • iuli-scale value 0.2 ms OFF delay	display version LED	Yes
• semi-conductor output Yes consumed active power 0.3 W insulation voltage for overvoltage category III according to IEC 80684 with degree of pollution 3 rated value 50 V surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance	product component	
consumed active power 0.3 W insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value 50 V surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance insusoidal half-wave 15g / 11 ms • acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance 6 150 Hz: 2 g • acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circult/ Control 11 30 V operating range factor control supply voltage rated value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms oFf delay time 0.3 ms product component plug-in socket No Auxiliary circuit type of switching contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1	 relay output 	No
insulation voltage for overvoltage category III according to 50 V surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance isinusoidal half-wave 15g / 11 ms vibration resistance 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control supply voltage at DC 11 30 V operating range factor control supply voltage rated 1 vibration value 1 of the scale value 1 switch ON delay time 0.2 ms of the day time 0.3 ms product component plug-in socket NO contact Auxiliary circuit 1 Hype of switching contact NO contact number of NO contacts for auxiliary contacts 1	 semi-conductor output 	Yes
IEC 60664 with degree of pollution 3 rated value 2.5 kV surge voltage resistance rated value 2.5 kV protection class IP IP20 shock resistance isinusoidal half-wave 15g / 11 ms • acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance 6 150 Hz: 2 g • acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control 11 30 V operating range factor control supply voltage rated value 11 30 V operating range factor control supply voltage rated value 1 • initial value 1 • full-scale value 1 • at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit Ype of switching contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1	consumed active power	0.3 W
protection class IP IP20 shock resistance sinusoidal half-wave 15g / 11 ms • acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance - • acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control - control supply voltage at DC - • rated value 11 30 V operating range factor control supply voltage rated - • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms • at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit NO contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1		50 V
production and shock resistance sinusoidal half-wave 15g / 11 ms vibration resistance acc. to IEC 60068-2-6 e acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control 11 30 V operating range factor control supply voltage rated value 11 30 V operating range factor control supply voltage rated value 1 initial value 1 e tube 1 operating range factor control supply voltage rated value 1 witch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit NO contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1	surge voltage resistance rated value	2.5 kV
acc. to IEC 60068-2-27 sinusoidal half-wave 15g / 11 ms vibration resistance acc. to IEC 60068-2-6 6 150 Hz; 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control control supply voltage at DC erated value 11 30 V operating range factor control supply voltage rated value at DC initial value 1 switch ON delay time e at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit type of switching contact number of NO contacts for auxiliary contacts Main circuit	protection class IP	IP20
vibration resistance 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control K control supply voltage at DC 11 30 V • rated value 11 30 V operating range factor control supply voltage rated value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1	shock resistance	
• acc. to IEC 60068-2-6 6 150 Hz: 2 g switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control K control supply voltage at DC 11 30 V • rated value 11 30 V operating range factor control supply voltage rated value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit NO contact type of switching contact 1 number of NO contacts for auxiliary contacts 1	• acc. to IEC 60068-2-27	sinusoidal half-wave 15g / 11 ms
switching frequency 100 Hz thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control K control supply voltage at DC 11 30 V • rated value 11 30 V operating range factor control supply voltage rated value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1	vibration resistance	
thermal current 5 A reference code acc. to IEC 81346-2 K Control circuit/ Control K control supply voltage at DC 11 30 V • rated value 11 30 V operating range factor control supply voltage rated value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1 Main circuit 1	• acc. to IEC 60068-2-6	6 150 Hz: 2 g
reference code acc. to IEC 81346-2 K Control circuit/ Control control supply voltage at DC rated value 11 30 V operating range factor control supply voltage rated value at DC initial value full-scale value full-scale value at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit type of switching contact number of NO contacts for auxiliary contacts Main circuit 	switching frequency	100 Hz
Control circuit/ Control control supply voltage at DC • rated value 11 30 V operating range factor control supply voltage rated 1 value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1	thermal current	5 A
control supply voltage at DC 11 30 V operating range factor control supply voltage rated value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1	reference code acc. to IEC 81346-2	К
rated value rated value 11 30 V operating range factor control supply voltage rated value at DC initial value ifull-scale value intial value ifull-scale value intial value ifull-scale value value value value ifull-scale value ifull-scale value v	Control circuit/ Control	
operating range factor control supply voltage rated value at DC • initial value 1 • full-scale value 1 switch ON delay time 1 • at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1	control supply voltage at DC	
value at DC 1 • initial value 1 • full-scale value 1 switch ON delay time 1 • at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit 1 type of switching contact NO contact number of NO contacts for auxiliary contacts 1	rated value	11 30 V
switch ON delay time 0.2 ms • at DC maximum 0.3 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit VO contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1	 initial value 	1
• at DC maximum 0.2 ms OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit type of switching contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1 Main circuit V	full-scale value	1
OFF delay time 0.3 ms product component plug-in socket No Auxiliary circuit type of switching contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1 Main circuit Volume	switch ON delay time	
product component plug-in socket No Auxiliary circuit NO contact type of switching contact NO contact number of NO contacts for auxiliary contacts 1 Main circuit No	at DC maximum	0.2 ms
Auxiliary circuit type of switching contact number of NO contacts for auxiliary contacts 1 Main circuit	OFF delay time	0.3 ms
type of switching contact NO contact number of NO contacts for auxiliary contacts 1 Main circuit 1	product component plug-in socket	No
number of NO contacts for auxiliary contacts 1 Main circuit 1	Auxiliary circuit	
Main circuit	type of switching contact	NO contact
	number of NO contacts for auxiliary contacts	1
type of voltage DC	Main circuit	
	type of voltage	DC

Inputs/ Outputs	
property of the output short-circuit proof	Yes
Outputs	
ampacity of the semiconductor output at DC	5 mA 5 A
Electromagnetic compatibility	
EMC emitted interference acc. to IEC 60947-1	ambience A (industrial sector)
EMC immunity acc. to IEC 60947-1	corresponds to degree of severity 3
conducted interference	
• due to burst acc. to IEC 61000-4-4	2 kV
 due to conductor-earth surge acc. to IEC 61000-4-5 	2 kV
• due to conductor-conductor surge acc. to IEC 61000-4-5	1 kV
field-based interference acc. to IEC 61000-4-3	10 V/m
electrostatic discharge acc. to IEC 61000-4-2	6 kV contact discharge / 8 kV air discharge
Display	
display version as status display by LED	LED green
Connections/ Terminals	
product function removable terminal	No
type of electrical connection for auxiliary and control circuit	spring-loaded terminals (push-in)
wire length	
at DC maximum	1 000 m
type of connectable conductor cross-sections	
• solid	1x (0.25 2.5 mm²)
 finely stranded with core end processing 	1x (0.25 1.5 mm²)
 finely stranded without core end processing 	1x (0.25 2.5 mm²)
 at AWG cables solid 	1 x (20 14)
 at AWG cables stranded 	1x (20 14)
 connectable conductor cross-section solid 	0.25 2.5 mm²
 connectable conductor cross-section finely stranded with core end processing 	0.25 1.5 mm²
 connectable conductor cross-section finely stranded without core end processing 	0.25 2.5 mm ²
 AWG number as coded connectable conductor cross section solid 	20 14
AWG number as coded connectable conductor cross section stranded	20 14
Installation/ mounting/ dimensions	
mounting position	any
fastening method	snap-on mounting
height	93 mm
width	6.2 mm
depth	75 mm
required spacing	
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards — at the side	0 mm 0 mm
 for grounded parts 	0 mm
 for grounded parts forwards 	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— at the side — downwards	0 mm
 for live parts 	
- forwards	0 mm
— backwards	0 mm
Sacitralia	

— upwards			0 mm			
- downward	S		0 mm			
— at the side	9		0 mm			
Ambient conditions						
installation altitude at	height above sea level	maximum	2 000 m			
 ambient tempe 	rature during operation		-25 +60 °C			
 ambient tempe 	rature during storage		-40 +85 °C			
ambient tempe	rature during transport		-40 +85 °C			
relative humidity durin	ng operation		10 95 %			
Certificates/ approval	S					
General Product Ap	proval			EMC	Declaration of Conformity	
S.		EHC	EHC		<u>Miscellaneous</u>	

Declaration of Conformity	Marine / Shipping	other		
CE EG-Konf.	DNV-GL	<u>Confirmation</u>		

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RQ3065-2SM30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RQ3065-2SM30

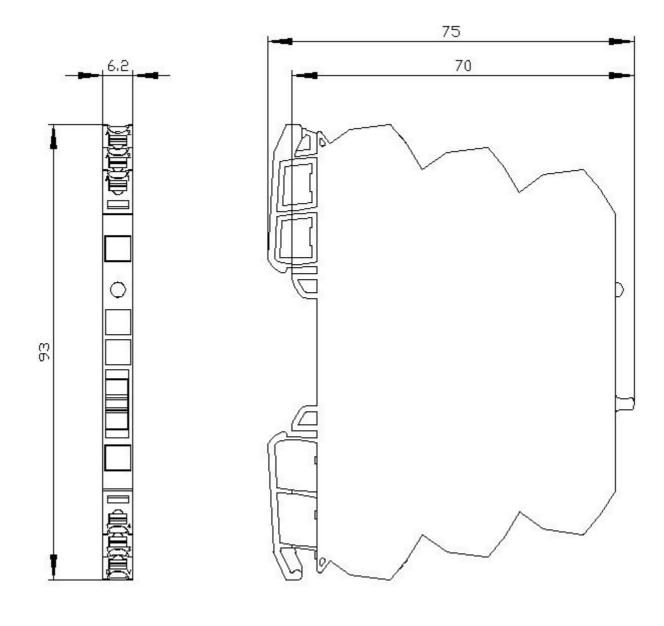
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

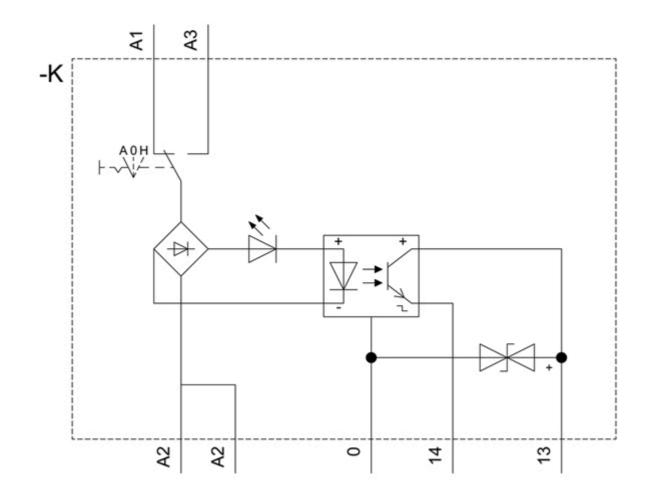
https://support.industry.siemens.com/cs/ww/en/ps/3RQ3065-2SM30

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RQ3065-2SM30&lang=en

Characteristic: Derating

https://support.industry.siemens.com/cs/ww/en/ps/3RQ3065-2SM30/manual





last modified:

8/11/2020 🖸