SIEMENS

Data sheet

3RT2015-1BG41

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	FRQWDFWRU WHUPLQDO	\$ &	\$ N :	9	12

product brand name	6,5,86
product designation	3 R Z H U F R Q W D F W R U
product type designation	57
General technical data	
size of contactor	6
product extension	
" IXQFWLRQ PRGXOH IRU FRPPXQ	1 R
" DX[LOLDU\ VZLWFK	< H V
power loss [W] for rated value of the current	
"DW \$& LQ KRW RSHUDWLQJ VWD	:
" DW \$& LQ KRW RSHUDWLQJ VWD	:
" ZLWKRXW ORDG FXUUHQW VKDU	:
insulation voltage	
" RI PDLQ FLUFXLW ZLWK GHJUHH	9
" RI DX[LOLDU\ FLUFXLW ZLWK GF YDOXH	9
surge voltage resistance	
" RI PDLQ FLUFXLW UDWHG YDOX	N 9
" RI DX[LOLDU\ FLUFXLW UDWHG `	N 9
PD[LPXP SHUPLVVLEOH YROWDJH IR FRLO DQG PDLQ FRQWDFWV DFFRUG	9
shock resistance at rectangular impulse	
"DW '&	J PV J PV
shock resistance with sine pulse	
"DW '&	J PV J PV
mechanical service life (switching cycles)	
" RI FRQWDFWRU W\SLFDO	
" RI WKH FRQWDFWRU ZLWK DGGH DX[LOLDU\ VZLWFK EORFN W\SLFI	
" RI WKH FRQWDFWRU ZLWK DGG⊦ W\SLFDO	
reference code according to IEC 81346-2	4
Substance Prohibitance (Date)	
Ambient conditions	
LQVWDOODWLRQ DOWLWXGH DW KH	Р
ambient temperature	
" GXULQJ RSHUDWLRQ	f &
" GXULQJ VWRUDJH	f &
relative humidity minimum	
relative humidity at 55 °C according to IEC 60068-2-30 maximum	

Main circuit	
number of poles for main current circuit	
number of NO contacts for main contacts	
operating voltage	
"DW \$& UDWHG YDOXH PD[LPXP	9
"DW \$& H UDWHG YDOXH PD[LPX	9
operational current	
"DW \$& DW 9DW DPELHQW W	\$
UDWHG YDOXH	
	^
2 XS WR 9 DW DPELHQW WHF UDWHG YDOXH	\$
² XS WR 9 DW DPELHQW WHF	\$
UDWHG YDOXH	
"DW \$&	
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
"DW\$& H	
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
"DW \$& DW 9 UDWHG YDOXH	\$
"DW \$& D XS WR 9 UDWHG YD	\$
"DW \$& EXSWR 9 UDWHG YD	\$
" DW \$& D	<u>ф</u>
2 XS WR 9 IRU FXUUHQW SHI YDOXH	\$
² XS WR 9 IRU FXUUHQW SHI	\$
YDOXH	
² XS WR 9 IRU FXUUHQW SHI	\$
Y D O X H	
2 XS WR 9 IRU FXUUHQW SHI YDOXH	\$
" DW \$& D	
² XS WR 9 IRU FXUUHQW SHI	\$
YDOXH	
² XS WR 9 IRU FXUUHQW SHI	\$
YDOXH	•
2 XS WR 9 IRU FXUUHQW SHI YDOXH	\$
² XS WR 9 IRU FXUUHQW SHI	\$
YDOXH	•
PLQLPXP FURVV VHFWLRQ LQ PDLQ	PPð
UDWHG YDOXH operational current for approx. 200000 operating	
cycles at AC-4	
"DW 9UDWHGYDOXH	\$
"DW 9UDWHGYDOXH	\$
operational current	
• at 1 current path at DC-1	
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
• with 2 current paths in series at DC-1	•
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH ² DW 9 UDWHG YDOXH	\$ \$
² DW 9 UDWHG YDUXH	φ

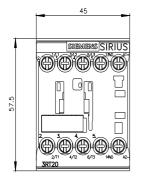
with 3 current paths in series at DC-1

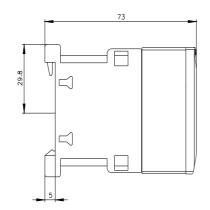
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
 at 1 current path at DC-3 at DC-5 	
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
 with 2 current paths in series at DC-3 at DC-5 	
2 DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
	Ψ
• with 3 current paths in series at DC-3 at DC-5	
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
² DW 9 UDWHG YDOXH	\$
operating power	
"DW \$& DW 9 UDWHG YDOXH	N :
	N
"DW\$&	
² DW 9 UDWHG YDOXH	N :
² DW 9 UDWHG YDOXH	N :
² DW 9 UDWHG YDOXH	N :
² DW 9 UDWHG YDOXH	N :
"DW\$& H	
² DW 9 UDWHG YDOXH	N :
² DW 9 UDWHG YDOXH	N :
² DW 9 UDWHG YDOXH	N :
² DW 9 UDWHG YDOXH	N :
operating power for approx. 200000 operating cycles	
at AC-4	
"DW 9 UDWHG YDOXH	N :
"DW 9UDWHGYDOXH	N :
operating apparent power at AC-6a	
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
operating apparent power at AC-6a	ΝθΦ
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
" XS WR 9 IRU FXUUHQW SHDN	N 9 \$
short-time withstand current in cold operating state	
up to 40 °C	
"OLPLWHG WR VVZLWFKLQJDW	\$ 8VH PLQLPXP FURVV VHFWLRQ DFF WI
" OLPLWHG WR V VZLWFKLQJ DW	\$ 8VH PLQLPXP FURVV VHFWLRQ DFF WR
" OLPLWHG WR V VZLWFKLQJ D	\$ 8VH PLQLPXP FURVV VHFWLRQ DFF WR
" OLPLWHG WR V VZLWFKLQJ D	
" OLPLWHG WR V VZLWFKLQJ D	
	φ ovin reger xr rok v vin werke bir wik
no-load switching frequency	V.
<u> </u>	К
operating frequency	
"DW \$& PD[LPXP	К
"DW \$& PD[LPXP	К
"DW \$& PD[LPXP	К
"DW \$& H PD[LPXP	К
"DW \$& PD[LPXP	K
Control circuit/ Control	
type of voltage of the control supply voltage	'&
type of voltage of the control supply voltage	ŭ

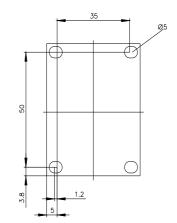
control supply voltage at DC	
" UDWHG YDOXH	9
operating range factor control supply voltage rated	
value of magnet coil at DC	
" LQLWLDO YDOXH	
" IXOO VFDOH YDOXH	
closing power of magnet coil at DC	:
holding power of magnet coil at DC	:
closing delay	
"DW '&	PV
opening delay	
"DW '&	PV
arcing time	PV
control version of the switch operating mechanism	6WDQGDUG \$\$
Auxiliary circuit	
QXPEHU RI 12 FRQWDFWV IRU DX[LC	
LQVWDQWDQHRXV FRQWDFW	
RSHUDWLRQDO FXUUHQW DW \$& F	\$
operational current at AC-15	
"DW 9 UDWHG YDOXH	\$
operational current at DC-12	
"DW 9 UDWHG YDOXH	\$
" DW 9 UDWHG YDOXH	\$
" DW 9 UDWHG YDOXH	\$
" DW 9 UDWHG YDOXH	\$
" DW 9 UDWHG YDOXH	\$
DW 50DWH01D0XH	\$
	\$
operational current at DC-13	
"DW 9 UDWHG YDOXH	\$
" DW 9 UDWHG YDOXH	\$
contact reliability of auxiliary contacts	IDXOW\VZLWFKLQJSHU PLOOLRQ 9
UL/CSA ratings	
full-load current (FLA) for 3-phase AC motor	
" DW 9 UDWHG YDOXH	\$
"DW 9 UDWHG YDOXH	\$
yielded mechanical performance [hp]	
" IRU VLQJOH SKDVH \$& PRWRU	
² DW 9 UDWHG YDOXH	KS
² DW 9 UDWHG YDOXH	KS
" IRU SKDVH \$& PRWRU	
² DW 9 UDWHG YDOXH	KS
² DW 9 UDWHG YDOXH	KS
² DW 9 UDWHG YDOXH	KS
² DW 9 UDWHG YDOXH ² DW 9 UDWHG YDOXH	KS
contact rating of auxiliary contacts according to UL	\$ 4
Short-circuit protection	
design of the fuse link	
" IRU VKRUW FLUFXLW SURWHFWL	
² ZLWK W\SH RI FRRUGLQDWLR	J*\$ 9 N\$ D0\$ 9 N\$%6
2 ZLWK W\SH RI DVVLJQPHQW	J* \$ 9 N\$ D0 \$ 9 N\$ %6
	N \$

" IRU VKRUW FLUFXLW SURWHFWL UHTXLUHG	J *	\$	9	N \$				
Installation/ mounting/ dimensions								
mounting position					VVLEC DUG E			VLFDO Q YHU'
fastening method					PRXQ	WLQJ	RQW	r pp
" VLGH E\ VLGH PRXQWLQJ		UGLQ	JWR	',1 (1				
height	< H V P P							
width	PP							
depth	P P							
required spacing								
" ZLWK VLGH E\ VLGH PRXQWLQJ								
² IRUZDUGV	ΡP							
² XSZDUGV	ΡP							
² GRZQZDUGV	ΡP							
² DW WKH VLGH	ΡP							
" IRU JURXQGHG SDUWV								
² I R U Z D U G V	ΡP							
2 X S Z D U G V	ΡP							
² DW WKH VLGH	ΡP							
² G R Z Q Z D U G V	ΡP							
" IRU OLYH SDUWV								
² I R U Z D U G V	ΡP							
2 X S Z D U G V	ΡP							
² GRZQZDUGV	ΡP							
2 DW WKH VLGH	PP							
Connections/ Terminals								
type of electrical connection								
" IRU PDLQ FXUUHQW FLUFXLW		ZW\S						
" IRU DX[LOLDU\ DQG FRQWURO F								
" DW FRQWDFWRU IRU DX[LOLDU\		ZW\S						
<u>" RI PDJQHW FRLO</u> type of connectable conductor cross-sections	6FUH	Z W\S	н үүн	UPLQ	DOV			
" IRU PDLQ FRQWDFWV								
² VROLG	r		ΡΡð	r		PF	рă	[PPð
2 VROLG RU VWUDQGHG	l r		PPð	-		PF		E PPô E PPô
² ILQHO\ VWUDQGHG ZLWK FRU	ſ		PPð			PF		
" DW \$:* FDEOHV IRU PDLQ FRQW	ſ		۰ ۱	L	ſ		0	
connectable conductor cross-section for main	L		L		L			
contacts								
" V R O L G		PP	ð					
" V W U D Q G H G		PP	ð					
" ILQHO\ VWUDQGHG ZLWK FRUH I		Р	Ρð					
connectable conductor cross-section for auxiliary contacts								
" VROLG RU VWUDQGHG		PP	ð					
" ILQHO\ VWUDQGHG ZLWK FRUH I			Pð					
type of connectable conductor cross-sections		1	. 0					
" IRU DX[LOLDU\ FRQWDFWV								
² VROLG RU VWUDQGHG	[ΡΡð]		PF	ð	[PPð
² ILQHO\ VWUDQGHG ZLWK FRU	ſ		ΡΡð			PF		
" DW \$:* FDEOHV IRU DX[LOLDU\ F			[L]			
AWG number as coded connectable conductor cross								
section								
" IRU PDLQ FRQWDFWV								
" IRU DX[LOLDU\ FRQWDFWV								
Safety related data								
product function								
" PLUURU FRQWDFW DFFRUGLQJ V	< H V	ZLWK	5 +					
% YDOXH ZLWK KLJK GHPDQG UDW								

proportion of dange	erous failures					
"ZLWK OR	Z GHPDQG UD	WH DFFRL				
	JK GHPDQG U					
IDLOXUH UD	WH >),7@ZLW	K ORZ GH),7			
7 YDOXHIR ,(&	U SURRI WHVW	/ LQWHUY	١			
protection class IP o 60529	on the front according	to IEC ,	3			
-	the front according to	IEC 60529	LQJHU VDIH I	RU YHUWLFDO	FRQWDFW IURF	
suitability for use						
	JHODWHG VZL'	WFKLQJ2 <	< H V			
ertificates/ approval General Product Ap		_				
General Product Ap	provar					
(SP)	CCC	<u>& R Q I L U</u> P		<u>. &</u>	EHC	
EMC	Functional Safety/Safety of Machinery	Declaration of C	onformity	Test Certificates		
RCM	<u>7\SH ([DPL</u> Q <u>&HUW</u> LILF		UK CA	<u>6SHFLDO 7H</u> <u>D</u> WH	VW <u>7&GHJWHLVWF</u> & <u>DWHV7HV</u> W	H U W 5 H S
Marine / Shipping						
			Lloyd's Register	PRS	RINA	
ABS	VERITAS					
ABS Marine / Shipping	BUREAU VERITAS other		Dangerous Good	I		
ABS			Dangerous Good <u>7 U D Q V S R U</u> <u>W L</u> R Q			
Inther information	other <u>& R Q I L U </u> P D V	ybe wDe	<u>7 U D Q V S R U</u>			
Inther information	other <u>& R Q I L U P D V</u> wnloadcenter (Catalo <u>Z V L H P H Q V F R</u> e ordering system)	gs, Brochures,) P L F	<u>TUDQVSRU</u> <u>W</u> LRQ	W,QIRUPD	RGXFW"POIE 5	7
Inther information Information- and Do K W W S V Z Z Z Industry Mall (Onlin K W W S V P D C Cax online generato	other <u>& R Q I L U P D V</u> wnloadcenter (Catalog <u>Z V L H P H Q V F R</u> e ordering system) <u>D O L Q G X V W U \</u> or	gs, Brochures,) P LF VLHPHQV FF	<u>TUDQVSRU</u> <u>W</u> LRQ	W ,QIRUPD Q &DWDORJ SU	RGXFW"POIE 5 DW DVS["ODQJ F	
Inther information Information- and Do K W W S V Z Z Z Industry Mall (Onlin K W W S V P D O Cax online generato K W W S V X S S Service&Support (M	other <u>& R Q I L U P D V</u> wnloadcenter (Catalog <u>Z V L H P H Q V F R</u> e ordering system) <u>D O L Q G X V W U V</u> or <u>S R U W D X W R P D</u> lanuals, Certificates, C	gs, Brochures,) P LF VLHPHQV FF WLRQ VLHP Characteristics, FA	<u>7UDQVSRU</u> <u>W</u> LRQ <u>RP PDOO HQ</u> H H <u>QV FRP :: &</u> \$: Q s,)	W ,QIRUPD Q &DWDORJ SU <u>RUGHU</u> GHIDXC	OW DVS["ODQJ H	
Inther information Information- and Do K W W S V Z Z Z Industry Mall (Onlin K W W S V P D O Cax online generato K W W S V X S Service&Support (M K W W S V X S Mage database (pro	other <u>& R Q I L U P D V</u> wenloadcenter (Catalog <u>Z V L H P H Q V F R</u> e ordering system) <u>D O L Q G X V W U V</u> or <u>S R U W D X W R P D</u> lanuals, Certificates, C <u>S S R U W L Q G X V</u> oduct images, 2D dime	gs, Brochures,) P LF VLHPHQV FF WLRQ VLHP Characteristics, FA WU\ VLHPHQ ension drawings, 3	<u>TUDQVSRU</u> <u>W</u> LRQ <u>W</u> LRQ HQV FRP :: &\$: Qs,) V FRP FV ZZ H D models, device circu	W,QIRUPD Q&DWDORJSU <u>RUGHU</u> GHIDXC IQSV57% Jit diagrams, EPLAN ma)WDVS["ODQJH * acros,)	HQ P
Inther information Information- and Do K W W S V Z Z Z Industry Mall (Onlin K W W S V P D O Cax online generator K W W S V X S Service&Support (M K W W S V V X S mage database (pro K W W S Z Z Z Characteristic: Trip	other <u>& R Q I L U P D V</u> wenloadcenter (Catalog <u>Z V L H P H Q V F R</u> e ordering system) <u>D O L Q G X V W U V</u> or <u>S R U W D X W R P D</u> lanuals, Certificates, O <u>S S R U W L Q G X V</u> oduct images, 2D dime <u>D X W R P D W L R Q</u> ping characteristics, I ²	ULHPHQV FF WLRQ VLHP Characteristics, FA WU\ VLHPHQ ension drawings, 3 VLHPHQV F t, Let-through curr	<u>TUDQVSRU</u> <u>W</u> LRQ <u>W</u> LRQ <u>W</u> LRQ H <u>QVFRP:: &</u> S: Qs,) <u>V</u> FRPFVZZH D models, device circu RPELOGGEFD	W,QIRUPD Q&DWDORJSU <u>RUGHU</u> GHIDXC IQSV57% Jit diagrams, EPLAN ma LBGHDVS["POI)WDVS["ODQJH * acros,) E57 %* C	HQ P
Inther information Information- and Do K W W S V Z Z Z Industry Mall (Onlin K W W S V P D Q Cax online generator K W W S V V X S Service&Support (M K W W S V V X S Service&Support (M K W W S V V X S Turther characteristics	other <u>& R Q I L U P D V</u> with the second	gs, Brochures,) PLF VLHPHQV FF WLRQ VLHP Characteristics, FA WU\ VLHPHQV ension drawings, 3 VLHPHQV F t, Let-through curr WU\ VLHPHQ urance, switching	<u>TUDQVSRU</u> <u>W</u> LRQ <u>W</u> LRQ HQVFRP:: &\$: Qs,) VFRPFVZZH D models, device circu RPELOGGEFD rent VFRPFVZZH frequency)	W,QIRUPD Q&DWDORJSU RUGHUGHIDXO IQSV57% Jit diagrams, EPLAN ma LBGHDVS["POI IQSV57%)WDVS["ODQJH * acros,) E57 %* C	HQ P







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