



# SOLID STATE RELAY COMPLETE WITH HEATSINK, THREE-PHASE (2 CONTROLLED), 60A, 4...32VDC, SCREW TERMINALS



Product type designation HS2C Three-phase (2)				_
Tree-phase (2 controlled)   Injust characteristics   Control Voltage   Control Vol	Product designation			•
Control voltage	Product type designation			
Imput characteristics	Туре			• •
Control voltage         432VDC           Operating voltage limits         Operating voltage pick-up Operating voltage drop-out         V         4           Operating times         MA         1321           Operating times           Switching-on         Half cycle max           Switching mode         Zero crossing           Rated operating voltage         VAC         48600           Blocking voltage depending current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 40°C         A         48           Rated operating current AC-51 (resistive load) at 40°C         A         48           Rated operating current AC-51 (resistive load) at 40°C         A         4           Operational current min         A         530           Operational current min         A         530           Off state leadage current t=10ms         A         530           Off state leadage current to the current terminal colon terminal base	Input characteristics			controlled)
Operating voltage limits	•			4 33\/DC
Operating voltage pick-up Operating voltage pick-up Operating voltage drop-out V V 2   V V 2				432 V D C
Operating voltage drop-out   V   2	Operating voltage limits	Operating voltage pick up	\/	1
Input current at minmax voltage				
Operating times         Half cycle max           Switching-off         Half cycle max           Output characteristics         Factor crossing           Rated operating voltage         VAC         48600           Blocking voltage         VA         1200           Operational frequency (minmax)         Hz         4565           Rated operating current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 40°C         A         48           Rated operating current AC-53 (motor load) at 40°C         A         15           Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         mA         1           On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/µs         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         VDR           12t         East of the protection type         VDR           12t         Emminal characteristis         Emminal characteristis         Emmin	Input current at min may voltage	Operating voltage drop-out		
Switching-on         Half cycle max           Switching-off         Half cycle max           Output characteristics         Switching mode         Zero crossing           Rated operating voltage         VAC         48600           Blocking voltage         VAC         48600           Doperational frequency (minmax)         Hz         4565           Rated operating current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 55°C         A         48           Rated operating current AC-53 (motor load) at 40°C         A         15           Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         MA         1           On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/µs         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         VDR           12t         A2s         1404           Terminals tool         Type         Screw	·		ША	1321
Switching-off         Half cycle max           Output characteristics         Zero crossing           Rated operating voltage         VAC         48600           Blocking voltage         V         1200           Operational frequency (minmax)         Hz         4565           Rated operating current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 55°C         A         48           Rated operating current AC-53 (motor load) at 40°C         A         15           Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         mA         1           On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/µs         1000           Input - Output to metal base         V         5000           Output protection type         VDR         VDR           12t         A2s         1404           Terminal characteristics         Type         Screw           Control terminals         Nm         0.5Nm           Tightening torque control terminals         Nm         <	•			Half cycle may
Output characteristics         Zero crossing           Switching mode         VAC         48600           Blocking voltage         VAC         48600           Blocking voltage         V         1200           Operational frequency (minmax)         Hz         4565           Rated operating current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 55°C         A         48           Rated operating current AC-53 (motor load) at 40°C         A         15           Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         mA         1         4           On state output voltage drop         V         1,2         2           Critical rate of rise of off-state voltage dv/dt         V/µs         1000         1           Input - Output protection type         V         5000         V         1         2         C         A         140         A         1         A         1         A         1         A         1         A         1         A         1         A         1         A         1         A				•
Switching mode         Zero crossing           Rated operating voltage         VAC         48600           Blocking voltage         V         1200           Operational frequency (minmax)         Hz         4565           Rated operating current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 55°C         A         48           Rated operating current AC-53 (motor load) at 40°C         A         15           Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         mA         1           On state output voltage drop         V         1,2           Critical rate of rise of off-state voltage dv/dt         V/µs         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         V         5000           It         Type         Screw           Terminal characteristics         Type         Screw           Terminals tool         Type         Screw           Terminals tool         R         Nm         0.5Nm	•			Tiali Cycle Iliax
Rated operating voltage	•		<del></del>	Zero crossing
Blocking voltage			۷۵۲	
Operational frequency (minmax)         Hz         4565           Rated operating current AC-51 (resistive load) at 40°C         A         60           Rated operating current AC-51 (resistive load) at 55°C         A         48           Rated operating current AC-53 (motor load) at 40°C         A         15           Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         mA         1           On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/y         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         VDR           I2t         A2s         1404           Terminals characteristics         Type         Screw           Control terminals         Blade 3.5mm           Tightening torque control terminals         Nm         0.5Nm           Conductor section connectable (control terminals) with 1 or 2 wires minmax         AWG stranded Flexible w/o lug         n°         2812           Flexible w/o lug         mm2         0.752.5				
Rated operating current AC-51 (resistive load) at 40°C				
Rated operating current AC-51 (resistive load) at 55°C				
Rated operating current AC-53 (motor load) at 40°C				
Operational current min         A         0.16           Non repetitive surge peak on state current t=10ms         A         530           Off state leakage current         mA         1           On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/μs         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         VDR         VDR           I2t         A2s         1404           Terminal characteristics           Control terminals         Type         Screw           Terminals tool         Blade 3.5mm           Tightening torque control terminals         Nm         0.5Nm           Ibin         4.5         Conductor section connectable (control terminals) with 1 or 2 wires minmax         Nm         0.752.5           Conductor section connectable (control terminals) with 1 or 2 wires minmax         nm         0.752.5           Flexible c/w insulated spade lug         mm         0.752.5           Load terminals         Type         Screw           Load terminals tool         PH2           Tightening torque load terminals	,			
Non repetitive surge peak on state current t=10ms				
Off state leakage current         mA         1           On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/μs         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         VDR         VDR           I2t         A2s         1404           Terminal characteristics           Control terminals         Type         Screw           Terminals tool         Blade 3.5mm           Tightening torque control terminals         Nm         0.5Nm           Ibin         4.5           Conductor section connectable (control terminals) with 1 or 2 wires minmax         AWG stranded Flexible w/o lug mm2         0.752.5           Flexible c/w insulated spade lug         mm2         0.752.5           Load terminals         Type         Screw           Load terminals tool         PH2           Tightening torque load terminals         Nm         1.5				
On state output voltage drop         V         1.2           Critical rate of rise of off-state voltage dv/dt         V/µs         1000           Input - Output isolation         V         5000           Input - Output to metal base         V         5000           Output protection type         VDR           I2t         A2s         1404           Terminal characteristics           Control terminals         Type         Screw           Terminals tool         Blade 3.5mm           Tightening torque control terminals         Nm         0.5Nm           Ibin         4.5           Conductor section connectable (control terminals) with 1 or 2 wires minmax         AWG stranded flexible w/o lug mm2         0.752.5           Flexible c/w insulated spade lug         mm2         0.752.5           Flexible c/w insulated spade lug         mm2         0.752.5           Load terminals         Type         Screw           Load terminals tool         PH2           Tightening torque load terminals         Nm         1.5	· · · · · · · · · · · · · · · · · · ·			
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Input - Output isolation			-	
Input - Output to metal base			•	
Output protection type         VDR           I2t         A2s         1404           Terminal characteristics           Control terminals         Type         Screw           Terminals tool         Blade 3.5mm           Tightening torque control terminals         Nm         0.5Nm           Ibin         4.5           Conductor section connectable (control terminals) with 1 or 2 wires minmax         AWG stranded Flexible w/o lug mm2         0.752.5           Flexible c/w insulated spade lug         mm2         0.752.5           Load terminals         Type         Screw           Load terminals tool         PH2           Tightening torque load terminals         Nm         1.5				
I2t A2s 1404  Terminal characteristics  Control terminals Type Screw  Terminals tool Blade 3.5mm  Tightening torque control terminals  Conductor section connectable (control terminals) with 1 or 2 wires minmax  AWG stranded n° 2812  Flexible w/o lug mm2 0.752.5  Flexible c/w insulated spade lug mm2 0.752.5  Load terminals  Load terminals tool Type Screw  Day 1.5			V	
Terminal characteristics  Control terminals  Control terminals  Type Screw  Blade 3.5mm  Tightening torque control terminals  Nm 0.5Nm   Ibin 4.5  Conductor section connectable (control terminals) with 1 or 2 wires minmax  AWG stranded   n° 2812   Flexible w/o lug   mm2 0.752.5   Flexible c/w insulated spade lug   mm2 0.752.5    Load terminals  Load terminals tool   Type Screw  Tightening torque load terminals  Nm 1.5	- ' '		۸ ۵ ۵	
Control terminals Terminals tool Tightening torque control terminals Tightening torque control terminals Tightening torque control terminals  Nm			AZS	1404
Terminals tool Tightening torque control terminals  Nm			Turno	Corour
Tightening torque control terminals  Nm 0.5Nm     Ibin 4.5  Conductor section connectable (control terminals) with 1 or 2 wires minmax  AWG stranded n° 2812 Flexible w/o lug mm2 0.752.5 Flexible c/w insulated spade lug mm2 0.752.5  Load terminals  Load terminals tool  Type Screw  PH2  Tightening torque load terminals  Nm 1.5			туре	
Conductor section connectable (control terminals) with 1 or 2 wires minmax  AWG stranded n° 2812 Flexible w/o lug mm2 0.752.5 Flexible c/w insulated spade lug mm2 0.752.5  Load terminals Load terminals tool Tightening torque load terminals Nm 1.5				biade 3.5iiiiii
Conductor section connectable (control terminals) with 1 or 2 wires minmax  AWG stranded row 2812 Flexible w/o lug mm2 0.752.5 Flexible c/w insulated spade lug mm2 0.752.5  Load terminals Load terminals tool Type Screw Load terminals torque load terminals Tightening torque load terminals Nm 1.5	rightening torque control terminals		Nine	0.ENm
Conductor section connectable (control terminals) with 1 or 2 wires minmax  AWG stranded n° 2812 Flexible w/o lug mm2 0.752.5 Flexible c/w insulated spade lug mm2 0.752.5  Load terminals  Load terminals tool  Tightening torque load terminals  Nm 1.5				
AWG stranded n° 2812 Flexible w/o lug mm2 0.752.5 Flexible c/w insulated spade lug mm2 0.752.5  Load terminals Load terminals tool Tightening torque load terminals Nm 1.5	Conductor costion connectable (control terminals) with 4 == 0:	wirog min may	חומו	4.0
Flexible w/o lug mm2 0.752.5 Flexible c/w insulated spade lug mm2 0.752.5  Load terminals Load terminals tool Type Screw PH2  Tightening torque load terminals Nm 1.5	Conductor section connectable (control terminals) with 1 or 2 v		<b>5</b> °	20 12
Flexible c/w insulated spade lug mm2 0.752.5  Load terminals  Load terminals tool  Tightening torque load terminals  Nm 1.5				
Load terminals  Load terminals tool  Type Screw PH2  Tightening torque load terminals  Nm 1.5	Elas	•		
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Tightening torque load terminals  Nm 1.5			туре	
Nm 1.5				ГПΖ
	rightening torque load terminals		Niss	1 E
idin 13.3				
			וומו	13.3

On vertical plane



SOLID STATE RELAY COMPLETE WITH HEATSINK, THREE-PHASE (2 CONTROLLED), 60A, 4...32VDC, SCREW TERMINALS

Conductor section connectable (load terminals) with 1 or 2 wires min...max

AWG stranded n° 18...10 Flexible w/o lug mm2 1...6

Flexible c/w insulated spade lug mm2 1...16

allowable

Operating position

Fixing Screw or on 35mm DIN rail

### Ambient conditions

## Temperature

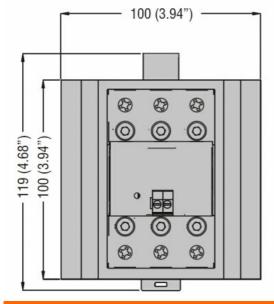
Operating temperature

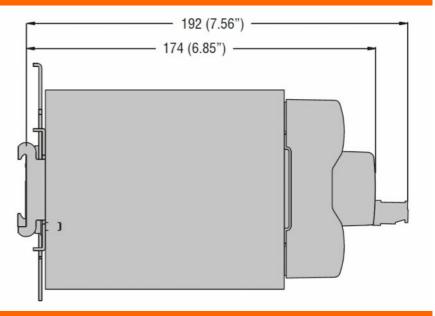
min °C -40 max °C +80

Storage temperature

min °C -40 max °C +130

# **Dimensions**





# Certifications and compliance

Certifications

IEC/EN/BS 60947-4-2

IEC/EN/BS 60947-4-3

IEC/EN/BS 62314

IEC/EN/BS 6335-1

Compliance

cULus

### ETIM classification

EC000066 - Power contactor, AC switching