## 6ES7522-5HH00-0AB0



**Data sheet** 



SIMATIC S7-1500, digital output module DQ 16x 230 V AC/2A ST; Relay 16 channels in groups of 2; 4 A per group; switching cycle counter for integrated relay, diagnostics; substitute value: the module supports the safety-oriented shutdown of load groups up to SILCL1 according to EN 62061:2005 + A2:2015, and Category 2 / PL c according to EN ISO 13849-1:2015. front connector (screw terminals or push-in) to be ordered separately

DO 40: 000 \ / 4 O /0 A OT ( )
DQ 16x 230 V AC/2 A ST (relay)
FS01
V1.1.0
Yes
Yes; I&M0 to I&M3
No
Yes
V13 SP1 / -
V5.5 SP3 / -
V1.0 / V5.1
V2.3 / -
Yes
No
No
No
Yes
Yes; FW V1.1.0 or higher
24 V
19.2 V
28.8 V
Yes
185 mA
230 V; 24 V DC to 120 V DC / 24 V AC to 230 V AC
0.8 W
5 W
Relays
16
Yes

Digital outputs, parameterizable Yes Short-circuit protection No Controlling a digital input Yes Size of motor starfers according to NEMA, max. 5 Switching capacity of the outputs  • on lamp load, max. 50 W (230 V AC), 5 W (24 V DC) Output current  • for signal "1" rated value • for signal "1" permissible range, min. 10 mA; 10 V • for signal "0" residual current, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for signal "1" permissible range, max. 2 A; thermal continuous current • for logic links • for or signal switching of two outputs • for redundant control of a load Yes Switching fequency  • with resistive load, max. 1 Hz • with inductive load, max. 1 Hz • or lamp load, max. 1 Hz • or lamp load, max. 1 Hz • Current per group, max. 4 A; see additional description in the manual • Current per channel, max. 2 A; see additional description in the manual • Current per module, max. 32 A; see additional description in the manual • Current per module, max. 150 mA • Rated supply voltage of relay coil L+ (DC) 24 V • Current consumption of relays (coil current of all relays), typ. • Current consumption of relays (coil current of all relays), typ. • External protection (internal) No • Number of operating cycles, max. see additional description in the manual • Contact connection (internal) No • Number of operating cycles, max. see additional description in the manual • Relay approved acc. to UL 508 No  Switching capacity of contacts  — with inductive load, max. 2 A; see additional description in the manual • Relay approved acc. to UL 508 No  Switching capacity of contacts  — with inductive load, max. 2 A; see additional description in the manual • Seledidod, max. 600 m  • shelded, max. 600 m  • shelded, max. 600 m  • Current per contacts  • Naintenance interrupt Yes	Digital outputs, parameterizable	
Short-circuit protection   No   Controlling a digital input   Yes   Size of motor starters according to NEMA, max.   5   Switching capacity of the outputs   • on lamp load, max.   5   W (230 V AC), 5 W (24 V DC)		Yes
Size of motor starters according to NEMA, max.	onore-oroare proteotion	
Size of motor starters according to NEMA, max.  Switching capacity of the outputs  on lamp load, max.  1 or signal "1" permissible range, min. of or signal "1" permissible range, min. of or signal "1" permissible range, max. of or signal "0" residual current, max.  No A  Parallel switching of two outputs  of or uprating of or redundant control of a load Yes  Switching frequency  with inductive load, max. of hamp load, max. of hamp load, max. of current per channel, max. of current per group, max. of current per module, max. of current per modules  of current per modules  Number of relay outputs of Relay outputs of Relay approved acc. to Ut. 508  Switching capacity of contacts with inductive load, max. of current per doptice, max. of current per modules  No actual description in the manual of the outputs of the outputs of the outputs of the current of the outputs of the output outputs of the current of the output output output of the output outp	Controlling a digital input	
Switching capacity of the outputs  on a lamp load, max.  of or signal "1" rated value  of or signal "1" permissible range, min.  of or signal "1" permissible range, max.  of or signal "0" residual current, max.  OA  Parallel switching of two outputs  of or logic links  of or uprating  of or logic links  of or uprating  of redundant control of a load  Yes  Switching frequency  with resistive load, max.  of the loughts  or lamp load, max.  1 Hz  Total current of the outputs  Current per channel, max.  Current per group, max.  current per group, max.  current per group, max.  current per group to lamp load, max.  current per group to lamp load, max.  current per group max.  white max lamp load load load load load load load load		
• on lamp load, max.  Output current  • for signal "1" rated value • for signal "1" permissible range, min. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "1" permissible range, max. • for logic links • for logic links • for uprating • for redundant control of a load • Yes  Switching frequency • with resistive load, max. • with inductive load, max. • with inductive load, max. • unax. • Current per channel, max. • Current per channel, max. • Current per group, max. • Current per module, max. • Relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Number of operating cycles, max. • Relay approved acc. to UL 508 • Switching capacity of contacts  — with inductive load, max. • Relay approved acc. to UL 508 • No  Switching capacity of contacts  — with resistive load, max. • Relay approved acc. to UL 508 • No  Switching capacity of contacts  — with resistive load, max. • Shielded, max. • I 000 m • Shielded, max. • unshielded, max. • Diagnostic alarm • Diagnostic alarm • Maintenance interrupt • Maintenance interrupt	-	3
Output current  • for signal "1" partial value • for signal "1" permissible range, min. • for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for logic links • for logic links • for logic links • for uprating • for redundant control of a load • Yes  Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • Uurrent per channel, max. • Current per group, max. • Current per group, max. • Current per group, max. • Current per module, max. • Number of relay outputs • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Relay autpote • Contact connection (internal) • No • Switching capacity of contacts  — with inductive load, max. • Relay approved acc. to UL 508 • No  Switching capacity of contacts  — with resistive load, max. • Lake additional description in the manual • Cable length • shielded, max. • unshielded, max.		50 W (230 V AC) 5 W (24 V DC)
• for signal "1" rated value • for signal "1" permissible range, min. • for signal "1" permissible range, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for signal "0" residual current, max. • for logic links • for logic links • for logic links • for redundant control of a load • Yes  Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • Oral lamp load, max. • Current per channel, max. • Current per channel, max. • Current per group, max. • Current per module, max. • Current per notable, max. • A is es additional description in the manual • Current per module, max. • Sale as upply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Nomber of operating cycles, max. • Relay approved acc. to Ut. 508 • Contact connection (internal) • No  Switching capacity of contacts  — with inductive load, max. • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • No  Switching capacity of contacts  — with inductive load, max. • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • A is es additional description in the manual • No  Switching capacity of contacts  — with inductive load, max. • Oral permits and the series and the seri	·	30 W (230 V AC), 3 W (24 V DC)
• for signal "1" permissible range, max. • for signal "2" permissible range, max. • for signal "0" residual current, max.  • for signal "1" permissible range, max. • for logic links • for logic links • for uprating • for uprating • for redundant control of a load • Yes  Switching frequency • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • Current per channel, max. • Current per group, max. • Current per module, max. • Current per module, max. • Nates additional description in the manual • Current per module, max. • Nates additional description in the manual • Relay outputs • Number of felay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Contact connection (internal) • No  Switching capacity of contacts  — with inductive load, max. — with resistive load, max. — old no max. — with resistive load, max. — old no max. — old	·	ο Δ
• for signal "1" permissible range, max. • for signal "0" residual current, max.  Parallel switching of two outputs  • for logic links • for uprating • for redundant control of a load • for redundant control of a load • yes  Switching frequency  • with resistive load, max. • with inductive load, max. • on lamp load, max. • on lamp load, max. • Current per channel, max. • Current per group, max. • Number of relay outputs • Alated supply voltage of relay coil L+ (DC) • Ourrent consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Number of operating cycles, max. • Relay approved acc. to UL 508 • No  Switching capacity of contacts  — with inductive load, max. — with resistive load, max. • A see additional description in the manual • A see additional des	-	
• for signal "0" residual current, max. 0 A  Parallel switching of two outputs  • for logic links		
Parallel switching of two outputs  • for logic links • for uprating • for redundant control of a load • Yes  Switching frequency  • with resistive load, max. • with inductive load, max. • on lamp load, max. • Current per channel, max. • Current per group, max. • Current per group, max. • Current per group, max. • Current per module, max. • Current per relay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Contact connection (internal) • Number of operating cycles, max. • Relay approved acc. to UL 508 • Switching capacity of contacts  — with inductive load, max. • With resistive load, max. • A is ee additional description in the manual • Switching capacity of contacts  — with inductive load, max. • A is ea additional description in the manual • Switching capacity of contacts  — with resistive load, max. • A is ee additional description in the manual • Shielded, max. • With resistive load, max. • Output to the contacts  — with resistive load, max. • Cable length • shielded, max. • Good m  Interrupts/diagnostics/status information  Substitute values connectable • Diagnostic clarm • Diagnostic clarm • Maintenance interrupt • Maintenance interrupt		
for logic links     for uprating     for redundant control of a load     Yes  Switching frequency      with resistive load, max.     on lamp load, max.     on lamp load, max.     on lamp load, max.     on lamp load, max.     Current per channel, max.     Current per channel, max.     Current per channel, max.     Current per group, max.     Current per group, max.     Current per lay outputs      Number of relay outputs      Number of relay outputs     Relad supply voltage of relay coil L+ (DC)     Current consumption of relays (coil current of all relays), typ.     external protection for relay outputs     No     Switching capacity of contacts     — with inductive load, max.     2 A; see additional description in the manual     150 mA     150		UA
• for uprating • for redundant control of a load  Switching frequency  • with resistive load, max. • with inductive load, max. • on lamp load, max. • Current per channel, max. • Current per group, max. • Current per module, max. • Number of relay outputs • Rated supply voltage of relay coil L+ (DC) • Current consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Cunter consumption of relays (coil current of all relays), typ. • external protection for relay outputs • Number of operating cycles, max. • Relay approved acc. to UL 508 • Switching capacity of contacts  — with inductive load, max. • Relay approved acc. to UL 508 • Switching capacity of contacts  — with resistive load, max. • ye see additional description in the manual  **Relay approved acc. to UL 508  **Switching capacity of contacts  — with resistive load, max. • ye as additional description in the manual  **Description in the	- · · · · · · · · · · · · · · · · · · ·	Voc
or redundant control of a load  Switching frequency      with resistive load, max.     with inductive load, max.     on lamp load, max.      Current per channel, max.     Current per group, max.     Current per group, max.     Current per module, max.      Relay outputs      Number of relay outputs     Rated supply voltage of relay coil L+ (DC)     Current consumption of relays (coil current of all relays), typ.     external protection for relay outputs     Number of operating cycles, max.     Relay approved acc. to UL 508     Switching capacity of contacts     — with inductive load, max.     2 A; see additional description in the manual  No Switching capacity of contacts     — with inductive load, max.     2 A; see additional description in the manual  Cable length     shielded, max.     1000 m     shielded, max.     1000 m     shielded, max.     1000 m     subjected in formation  Ves  Alarms  Diagnostic alarm     Yes  Maintenance interrupt     Yes  Maintenance interrupt	_	
Switching frequency  with resistive load, max. with inductive load, max. on lamp load, max. 1 Hz  Total current of the outputs  Current per channel, max. Current per group, max. Current per group, max. Current per module, max. 2 A; see additional description in the manual Current per module, max. 32 A; see additional description in the manual Relay outputs Number of relay outputs Number of relay outputs At a see additional description in the manual Relay outputs Number of relay outputs Number of relay coil L+ (DC) Current consumption of relays (coil current of all relays), typ. external protection for relay outputs Number of operating cycles, max. Relay approved acc. to UL 508 No Switching capacity of contacts — with inductive load, max. — with resistive load, max.		
with resistive load, max. with inductive load, max. on lamp load, max. 1 Hz  0.5 Hz 1 Hz  Current per channel, max. Current per channel, max. Current per group, max. Current per group, max. Current per module, max. 2 A; see additional description in the manual Current per module, max. 32 A; see additional description in the manual  Number of relay outputs Number of relay outputs Rated supply voltage of relay coil L+ (DC) Current consumption of relays (coil current of all relays), typ.  external protection for relay outputs No No Number of operating cycles, max. Relay approved acc. to UL 508 Switching capacity of contacts — with inductive load, max. 2 A; see additional description in the manual  A inductive load, max. 2 A; see additional description in the manual A inductive load, max. 2 A; see additional description in the manual A is ead additional description in the manual A is ea		res
with inductive load, max.     on lamp load, max.     on lamp load, max.      1 Hz  Total current of the outputs      Current per channel, max.     Current per group, max.     Current per group, max.     Current per module, max.      Current per module, max.      Relay outputs      Number of relay outputs     Rated supply voltage of relay coil L+ (DC)     Current consumption of relays (coil current of all relays), typ.      external protection for relay outputs     Number of operating cycles, max.     Relay approved acc. to UL 508  Switching capacity of contacts      — with resistive load, max.      with resistive load, max.     shielded, max.     onshielded, max.		411-
on lamp load, max.      Total current of the outputs         Current per channel, max.         Current per group, max.         Current per group, max.         Current per module, max.         Current per module, max.         Sa A; see additional description in the manual         Relay outputs          Number of relay outputs         Number of relay outputs         Rated supply voltage of relay coil L+ (DC)         Current consumption of relays (coil current of all relays), typ.         external protection for relay outputs         No         external protection (internal)         No         Number of operating cycles, max.         Relay approved acc. to UL 508         Switching capacity of contacts         — with inductive load, max.         — with resistive load, max.         — with resistive load, max.         Shielded, max.         1 000 m         enshielded, max.         1 000 m         substitute values connectable  Alarms          Diagnostic alarm         Yes  Maintenance interrupt	•	
Current of the outputs  Current per channel, max. Current per group, max. Current per group, max. Current per group, max. Current per module, max. Current per module, max.  Current per module, max.  Current per module, max.  A A; see additional description in the manual  Current per module, max.  Current per module, max.  A A; see additional description in the manual  Current per module, max.  A A; see additional description in the manual  Current per module, max.  A Relay outputs  Number of relay outputs A Miniature circuit breaker B10 / B16  Contact connection for relay outputs A Miniature circuit breaker B10 / B16  Contact connection (internal) No  No  Switching capacity of contacts  With inductive load, max. A Relay approved acc. to UL 508  Switching capacity of contacts  With resistive load, max. A see additional description in the manual  Cable length  Shielded, max.  1 000 m  unshielded, max.  Outputs/diagnostics/status information  Substitute values connectable  Yes  Alarms  Diagnostic alarm Yes  Maintenance interrupt Yes	·	
Current per channel, max. Current per group, max. Current per group, max. Current per module, max. Current per module, max.  Current per module, max.  A A; see additional description in the manual  Relay outputs  Number of relay outputs Rated supply voltage of relay coil L+ (DC) Current consumption of relays (coil current of all relays), typ. External protection for relay outputs No Contact connection (internal) No Number of operating cycles, max. Relay approved acc. to UL 508 Switching capacity of contacts — with inductive load, max. — with resistive load, max. — with resistive load, max.  Subsiticed, max.  I 1000 m  unshielded, max.  I 1000 m  substitute values connectable  Yes  Alarms  Diagnostic alarm  Yes  Maintenance interrupt  Yes	·	I IIZ
Current per group, max. Current per module, max.  A A; see additional description in the manual  Current per module, max.  A; see additional description in the manual  Relay outputs  Number of relay outputs Current consumption of relays (coil current of all relays), typ. External protection for relay outputs Contact connection (internal) No Number of operating cycles, max. Relay approved acc. to UL 508 No  Switching capacity of contacts — with inductive load, max. — with resistive load, max.  Cable length Sineided, max. Sineided, max.  Substitute values connectable  Yes  Alarms  Diagnostic alarm A A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; see additional description in the manual  A B A; s	·	
Current per module, max.  82 A; see additional description in the manual  Relay outputs  Number of relay outputs Readed supply voltage of relay coil L+ (DC) Current consumption of relays (coil current of all relays), typ.  external protection for relay outputs Contact connection (internal) No No Number of operating cycles, max. Relay approved acc. to UL 508 No  Switching capacity of contacts — with inductive load, max. — with resistive load, max. — with resistive load, max.  1 000 m  shielded, max.  outputs/diagnostics/status information  Substitute values connectable  Alarms  Diagnostic alarm  Maintenance interrupt  Yes  Maintenance interrupt  16  24 V  Miniature circuit breaker B10 / B16  No No No No No See additional description in the manual 2 A; see additional description in the manual 3 A; see additional description in the manual 3 A; see additional description in the manual 4 B; Substitute values connectable  Yes  Maintenance interrupt  Yes		
Relay outputs  Number of relay outputs Rated supply voltage of relay coil L+ (DC) Current consumption of relays (coil current of all relays), typ.  external protection for relay outputs Contact connection (internal) No Number of operating cycles, max. Relay approved acc. to UL 508 Switching capacity of contacts — with inductive load, max. — with resistive load, max. 2 A; see additional description in the manual — with resistive load, max. 2 A; see additional description in the manual  Cable length  shielded, max. unshielded, max. 1 000 m unshielded, max. 5 cubstitute values connectable  Yes  Alarms  Diagnostic alarm Maintenance interrupt Yes		
<ul> <li>Number of relay outputs</li> <li>Rated supply voltage of relay coil L+ (DC)</li> <li>Current consumption of relays (coil current of all relays), typ.</li> <li>external protection for relay outputs</li> <li>Contact connection (internal)</li> <li>No</li> <li>Number of operating cycles, max.</li> <li>Relay approved acc. to UL 508</li> <li>Switching capacity of contacts</li> <li>— with resistive load, max.</li> <li>— with resistive load, max.</li> <li>0 shielded, max.</li> <li>0 shielded, max.</li> <li>0 unshielded, max.</li> <li>0 unshielded, max.</li> <li>0 unshielded, max.</li> <li>0 unshielded, max.</li> <li>0 unshielded max.</li></ul>		32 A; see additional description in the manual
<ul> <li>Rated supply voltage of relay coil L+ (DC)</li> <li>Current consumption of relays (coil current of all relays), typ.</li> <li>external protection for relay outputs</li> <li>Miniature circuit breaker B10 / B16</li> <li>Contact connection (internal)</li> <li>No</li> <li>Number of operating cycles, max.</li> <li>Relay approved acc. to UL 508</li> <li>No</li> <li>Switching capacity of contacts</li> <li>— with inductive load, max.</li> <li>— with resistive load, max.</li> <li>— with resistive load, max.</li> <li>— shielded, max.</li> <li>• unshielded, max.</li> <li>• unshielded,</li></ul>		40
Current consumption of relays (coil current of all relays), typ.  external protection for relay outputs Contact connection (internal) No Number of operating cycles, max. Relay approved acc. to UL 508 Switching capacity of contacts — with inductive load, max. — with resistive load, max. — with resistive load, max. — shelded, max.  1 000 m  shielded, max.  unshielded, ma		
relays), typ.  • external protection for relay outputs  • Contact connection (internal)  • Number of operating cycles, max.  • Relay approved acc. to UL 508  Switching capacity of contacts  — with inductive load, max.  — with resistive load, max.  2 A; see additional description in the manual  2 A; see additional description in the manual  Cable length  • shielded, max.  • unshielded, max.  • Diagnostics/status information  Substitute values connectable  Yes  Alarms  • Diagnostic alarm  • Maintenance interrupt  Yes		
<ul> <li>external protection for relay outputs</li> <li>Contact connection (internal)</li> <li>No</li> <li>Number of operating cycles, max.</li> <li>Relay approved acc. to UL 508</li> <li>Switching capacity of contacts</li> <li>— with inductive load, max.</li> <li>— with resistive load, max.</li> <li>2 A; see additional description in the manual</li> <li>Cable length</li> <li>shielded, max.</li> <li>unshielded, max.</li> <li>1 000 m</li> <li>600 m</li> <li>Interrupts/diagnostics/status information</li> <li>Substitute values connectable</li> <li>Yes</li> <li>Maintenance interrupt</li> <li>Yes</li> </ul>		150 mA
Contact connection (internal)  No Number of operating cycles, max. Relay approved acc. to UL 508  Switching capacity of contacts		Miniature circuit breaker R10 / R16
Number of operating cycles, max. Relay approved acc. to UL 508  Switching capacity of contacts  - with inductive load, max with resistive load, max. 2 A; see additional description in the manual - with resistive load, max. 2 A; see additional description in the manual  Cable length  shielded, max. 1 000 m  unshielded, max. 600 m  Interrupts/diagnostics/status information  Substitute values connectable  Alarms Diagnostic alarm Maintenance interrupt Yes		
Relay approved acc. to UL 508  Switching capacity of contacts  - with inductive load, max.  - with resistive load, max.  2 A; see additional description in the manual  2 A; see additional description in the manual  Cable length  • shielded, max.  • unshielded, max.  • unshielded, max.  Substitute values connectable  Yes  Alarms  • Diagnostic alarm  • Maintenance interrupt  Yes		
Switching capacity of contacts  — with inductive load, max. — with resistive load, max. 2 A; see additional description in the manual 2 A; see additional description in the manual  Cable length  • shielded, max.  • unshielded, max.  • unshielded, max.  Substitute values connectable  Alarms  • Diagnostic alarm  • Maintenance interrupt  Yes		·
<ul> <li>— with inductive load, max.</li> <li>— with resistive load, max.</li> <li>2 A; see additional description in the manual</li> <li>2 A; see additional description in the</li></ul>		INO
with resistive load, max.  Cable length  • shielded, max. • unshielded, max.  foo m  Interrupts/diagnostics/status information  Substitute values connectable  Alarms  • Diagnostic alarm • Maintenance interrupt  Yes		2 A: see additional description in the manual
Cable length  • shielded, max.  • unshielded, max.  600 m  Interrupts/diagnostics/status information  Substitute values connectable  Alarms  • Diagnostic alarm  • Maintenance interrupt  Yes	·	·
shielded, max.     unshielded, max.     600 m  Interrupts/diagnostics/status information  Substitute values connectable  Alarms  Diagnostic alarm Maintenance interrupt  Yes  Yes		Z A, see additional description in the mandal
<ul> <li>unshielded, max.</li> <li>finterrupts/diagnostics/status information</li> <li>Substitute values connectable</li> <li>Alarms</li> <li>Diagnostic alarm</li> <li>Maintenance interrupt</li> <li>food m</li> <li< td=""><td></td><td>1 000 m</td></li<></ul>		1 000 m
Interrupts/diagnostics/status information  Substitute values connectable  Alarms  Diagnostic alarm  Maintenance interrupt  Yes		
Substitute values connectable  Alarms  Diagnostic alarm Maintenance interrupt  Yes  Yes		600 III
Alarms		
<ul> <li>Diagnostic alarm</li> <li>Maintenance interrupt</li> <li>Yes</li> <li>Yes</li> </ul>		Yes
Maintenance interrupt     Yes		V
Diagnoses	·	Yes
	Diagnoses	V
Monitoring the supply voltage     Yes		
Wire-break     No		
Short-circuit     No		No
Diagnostics indication LED		V 150
RUN LED     Yes; green LED		
• ERROR LED  Yes; red LED		
MAINT LED     Yes; Yellow LED	MAINT LED	
	Monitoring of the supply voltage (PWR-LED)	•
	Channel status display	
◆ for module diagnostics     Yes; red LED	<ul><li>Channel status display</li><li>for channel diagnostics</li></ul>	
Potential separation	<ul><li>Channel status display</li><li>for channel diagnostics</li><li>for module diagnostics</li></ul>	
Potential separation channels	<ul><li>Channel status display</li><li>for channel diagnostics</li><li>for module diagnostics</li></ul>	
• between the channels No	<ul> <li>Channel status display</li> <li>for channel diagnostics</li> <li>for module diagnostics</li> </ul> otential separation	
• between the channels, in groups of 2	Channel status display     for channel diagnostics     for module diagnostics  otential separation  Potential separation channels	Yes; red LED No

<ul> <li>between the channels and backplane bus</li> </ul>	Yes	
Between the channels and load voltage L+	Yes	
Permissible potential difference	165	
between different circuits	250 V AC between the channels and the supply voltage L+; 250 V AC between the channels and the backplane bus; 500 V AC between the channels	
Isolation		
Isolation tested with	Between channels: 3 100 V DC; between channels backplane bus: 3 100 V DC; between L+ and backplane bus: 707 V DC (type test)	
Standards, approvals, certificates		
Suitable for safety functions	No	
Suitable for safety-related tripping of standard modules	Yes; From FS02	
Highest safety class achievable for safety-related tripping of standard modules		
<ul> <li>Performance level according to ISO 13849-1</li> </ul>	PL c	
<ul> <li>Category according to ISO 13849-1</li> </ul>	Cat. 2	
<ul> <li>SILCL according to IEC 62061</li> </ul>	SILCL 1	
Ambient conditions		
Ambient temperature during operation		
<ul> <li>horizontal installation, min.</li> </ul>	-25 °C; From FS02	
<ul> <li>horizontal installation, max.</li> </ul>	60 °C	
<ul> <li>vertical installation, min.</li> </ul>	-25 °C; From FS02	
<ul> <li>vertical installation, max.</li> </ul>	40 °C	
Dimensions		
Width	35 mm	
Height	147 mm	
Depth	129 mm	
Weights		
Weight, approx.	350 g	

7/28/2021

last modified: