## **SIEMENS**

Data sheet 7PV1512-1AQ30



Timing relay, electronic ON delay 1 change-over contact, 1 time range 0.5...10 s 24/110 V AC and 24 V DC with LED, Screw terminal

product brand name	SIRIUS
product designation	timing relay
design of the product	slow-operating
product type designation	7PV15
General technical data	
product component semi-conductor output	No
product extension required remote control	No
product extension optional remote control	No
insulation voltage for overvoltage category III according to IEC 60664 with degree of pollution 3 rated value	300 V
test voltage for isolation test	2.2 kV
degree of pollution	2
surge voltage resistance rated value	4 000 V
test voltage for surge voltage test	4 800 V
protection class IP	IP20
shock resistance according to IEC 60068-2-27	11g / 15 ms
vibration resistance according to IEC 60068-2-6	10 55 Hz: 0.35 mm
mechanical service life (switching cycles) typical	10 000 000
electrical endurance (switching cycles) at AC-15 at 230 V typical	100 000
adjustable time	0.5 10 s
relative setting accuracy relating to full-scale value	5 %; +/-
minimum ON period	35 ms
recovery time	500 ms
reference code according to IEC 81346-2	K
relative repeat accuracy	2 %; +/-
influence of the surrounding temperature	2% in complete temperature range for the set duration
power supply influence	2% in complete voltage range for the set duration
Substance Prohibitance (Date)	05/01/2012
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage 1 at AC	
● at 50 Hz	100 127 V
● at 60 Hz	100 127 V
control supply voltage 2 at AC	
• at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
control supply voltage frequency 1	50 60 Hz
control supply voltage 1	
at DC rated value	24 V

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operating range factor control supply voltage rated	
value at DC	0.05
• initial value	0.85
• full-scale value	1.1
operating range factor control supply voltage rated value at AC at 50 Hz	
initial value	0.85
full-scale value	1.1
operating range factor control supply voltage rated value at AC at 60 Hz	
• initial value	0.85
full-scale value	1.1
Switching Function	
switching function	
ON-delay	Yes
<ul> <li>ON-delay/instantaneous contact</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
OFF delay	No
switching function	
<ul> <li>flashing symmetrically with interval start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with interval start</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start/instantaneous</li> </ul>	No
<ul> <li>flashing symmetrically with pulse start</li> </ul>	No
flashing asymmetrically with interval start	No
flashing asymmetrically with pulse start	No
switching function	
star-delta circuit with delay time	No
star-delta circuit	No
switching function with control signal	
<ul> <li>additive ON-delay</li> </ul>	No
<ul> <li>passing break contact</li> </ul>	No
<ul> <li>passing break contact/instantaneous</li> </ul>	No
OFF delay	No
<ul> <li>OFF delay/instantaneous</li> </ul>	No
<ul> <li>pulse delayed</li> </ul>	No
<ul> <li>pulse delayed/instantaneous</li> </ul>	No
<ul><li>pulse-shaping</li></ul>	No
<ul><li>pulse-shaping/instantaneous</li></ul>	No
<ul> <li>additive ON-delay/instantaneous</li> </ul>	No
ON-delay/OFF-delay	No
<ul> <li>ON-delay/OFF-delay/instantaneous</li> </ul>	No
<ul> <li>passing make contact</li> </ul>	No
<ul> <li>passing make contact/instantaneous contact</li> </ul>	No
switching function of interval relay with control signal	
<ul> <li>retrotriggerable with deactivated control signal/instantaneous contact</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal</li> </ul>	No
<ul> <li>retrotriggerable with switched-on control signal/instantaneous contact</li> </ul>	No
<ul> <li>retriggerable with deactivated control signal</li> </ul>	No
design of the control terminal non-floating	No
Short-circuit protection	
design of the fuse link for short-circuit protection of the auxiliary switch required	fuse gL/gG: 4 A
Auxiliary circuit	
material of switching contacts	AgSnO2
number of NC contacts	- ·
delayed switching	0
instantaneous contact	0

number of CO contacts  • delayed switching • instantaneous contact  number of CO contacts  • delayed switching • instantaneous contact  • delayed switching • instantaneous contact  • maximum • at 24 V • at 250 V • perational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts as NO contact at AC-15 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • operational current of auxiliary contacts at DC-13 • at 24 V • at 1250 V • at 250 V •		
winstantaneous contact   number of CO contacts   delayed switching     winstantaneous contact     one maximum     all 24 V     all 250 V     operational current of auxiliary contacts as NC contact at AC-15   all 24 V     all 250 V     operational current of auxiliary contacts as NC contact at AC-15   all 24 V     all 250 V     operational current of auxiliary contacts as NO contact at AC-15   all 24 V     all 250 V     operational current of auxiliary contacts as NO contact at AC-15   all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     one incorrect switching operation of 100 million switching operations (10 pc incorrect switching operation of 100 million switching operations (10 pc incorrect switching operation of 100 million switching operations (10 pc incorrect switching operation of 100 m		
number of CO contacts  • delayed switching • instantaneous contact  operational current of auxiliary contacts at AC-15 • maximum • at 24 V • at 250 V  operational current of auxiliary contacts as NC contact at AC-15 • at 24 V • at 250 V  operational current of auxiliary contacts as NC contact at AC-16 • at 24 V • at 250 V  operational current of auxiliary contacts as NO contact at AC-16 • at 24 V • at 250 V  operational current of auxiliary contacts as NO contact at AC-16 • at 24 V • at 250 V  operational current of auxiliary contacts at DC-13  operational current of auxiliary contacts at DC-13 • at 24 V • at 250 V • at 250 V  operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts • at 250 V •		
delayed switching     instantaneous contact  operational current of auxiliary contacts at AC-15     maximum     all 24 V     all 250 V     operational current of auxiliary contacts as NC contact at AC-15     all 24 V     all 250 V     operational current of auxiliary contacts as NC contact at AC-16     all 24 V     all 250 V     operational current of auxiliary contacts as NO contact at AC-19     all 24 V     all 250 V     operational current of auxiliary contacts as NO contact at AC-19     all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     all 24 V     all 250 V     operational current of auxiliary contacts at DC-13     all 24 V     all 250 V     operational current of auxiliary contacts according to UL     sall 250 V     operational current of auxiliary contacts     ontact rating of auxili		0
instantaneous contact Operational current of auxiliary contacts at AC-15     imaximum     at 24 V     at 250 V Operational current of auxiliary contacts as NC contact at AC-15     alt 24 V     at 250 V Operational current of auxiliary contacts as NC contact at AC-15     alt 24 V     at 250 V Operational current of auxiliary contacts as NO contact at AC-16     alt 24 V     alt 250 V Operational current of auxiliary contacts at DC-13 Operational current of auxiliary contacts at DC-13 Operational current of auxiliary contacts at DC-13     ot 125 V     alt 250 V Operational current of auxiliary contacts at DC-13 Operational current of auxiliary contacts at DC-13     ot 125 V     alt 250 V Operational current of unxiliary contacts Operating frequency with 3RT2 contactor maximum Contact reliability of auxiliary contacts V, 5 mA)  Contact rating of auxiliary contacts V, 5 mA)  No  Electromagnetic compatibility  EMC immunity according to IEC 61004-4 due to conductor-earth surge according to IEC 61004-5 due to conductor-earth surge according to IEC 61000-45 due to conductor conductor surge according to IEC 61000-45 due to conductor conductor surge according to IEC 61000-45 due to conductor conductor surge according to IEC 61000-45 due to conductor conductor surge according to IEC 61000-45 due to conductor conductor conductor surge according to IEC 61000-45 due to conductor conductor conductor surge according to IEC 61000-45 due to conductor cond		
operational current of auxiliary contacts at AC-15  • maximum • at 24 V • at 250 V • at 125 V • at		
maximum     at 24 V     at 250 V     operational current of auxiliary contacts as NC contact at AC-15     at 24 V     at 250 V     operational current of auxiliary contacts as NO contact at AC-16     at 24 V     at 250 V     operational current of auxiliary contacts as NO contact at AC-16     at 24 V     at 250 V     operational current of auxiliary contacts at DC-13     operational current of auxiliary contacts at DC-13     operational current of auxiliary contacts at DC-13     at 24 V     at 125 V     ot 125 V     at 250 V     ot 22 A     at 250 V     operating frequency with 3RT2 contactor maximum     contact rating of auxiliary contacts     contact rating of auxiliary contact		0
at 24 V   at 250 V   operational current of auxiliary contacts as NC contact at AC-15     at 24 V   at 250 V   operational current of auxiliary contacts as NO contact at AC-15     at 24 V   at 250 V   operational current of auxiliary contacts as NO contact at AC-16     at 24 V   ot 22 N   ot 250 V   operational current of auxiliary contacts at DC-13     at 24 V   ot 125 V   ot 22 A   ot 250 V   operational current of auxiliary contacts at DC-13     operational current of auxiliary contacts at DC-13     out 24 V   ot 125 V   ot 250 V   operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts on a contact reliability of auxiliary contacts on a contact reliability of auxiliary contacts on a contact reliability of auxiliary contacts according to UL without collary on a the relay outputs switchover delayed/without delay on non-volatile    Decertomagnetic compatibility  No    Decertomagnetic compatibility  Electromagnetic compatibility  All A    output to burst according to IEC 61000-4-3  output to conductor-conductor surge according to IEC 61000-4-3  output to conductor-conductor surge according to IEC 61000-4-2  Alt V contact discharge / 8 kV air discharge  Alt V contact discharge / 8 kV air discharge  Alt V contact discharge / 8 kV air discharge  Alt V contact discharge / 8 kV air discharge  Alt V contact discharge / 8 kV air discharge  Alt V contact discharge / 8 kV air discharge  Alt V contact dischar		
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operational current of auxiliary contacts as NC contact at AC-15  at 24 V at 250 V 3 A operational current of auxiliary contacts as NO contact at AC-15  at 24 V 3 A at 250 V 3 A operational current of auxiliary contacts at DC-13 at 24 V at 250 V 3 A operational current of auxiliary contacts at DC-13 at 24 V at 250 V operational current of auxiliary contacts at DC-13 at 24 V at 250 V operational current of auxiliary contacts at DC-13 at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts contact rating of auxiliary contacts according to UL R150 / B300 switching capacity current with inductive load inputs/Outputs product function at the relay outputs switchover delayed/without delay non-vokalite  Electromagnetic compatibility  EMC immunity according to IEC 61000-4-2 due to conducted runterference due to burst according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor interference according to IEC 61000-4-2 due to conductor-conductor surge according to IEC 61000-4-5 due to conductor-conductor conductor surge according to IEC 61000-4-5 due to conductor conducto	• at 24 V	3 A
contact at AC-15  at 24 V  at 250 V operational current of auxiliary contacts as NO contact at AC-15  at 24 V  at 250 V operational current of auxiliary contacts at DC-13 operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA) contact rating of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA) contact rating of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA) contact rating of auxiliary contacts one incorrect switching operation of 100 million switching operations (17 V, 5 mA)  volumetry (10 million switching operations (17 V, 5 mA)  volumetry (10 million switching operations (18 V, 5 mA)  volumetry (10 million switching operations (18 V, 5 mA) volumetry (10 million switching operations (17 V, 5 mA)  volumetry (10 million switching operations (18 V, 5 mA) volumetry (10 million switching operations (18 V, 5 mA) volumetry (10 million switching operations (18 V, 5 mA) volumetry (10 million switching operations (18 V, 5 mA) volumetry (10 million switching operations (18 V, 5 mA) volumetry (10 million switching operations (18 V, 6 mA) volumetry (10 million switching operations (18 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million switching operations (19 V, 6 mA) volumetry (10 million sw		3 A
at 250 V operational current of auxiliary contacts as NO contact at AC-15 at 24 V at 250 V operational current of auxiliary contacts at DC-13 at 250 V operational current of auxiliary contacts at DC-13 at 250 V operational current of auxiliary contacts at DC-13 at 250 V operational current of auxiliary contacts at DC-13 at 250 V other at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts v. 5 mA) contact reliability of auxiliary contacts v. 5 mA) contact rating of auxiliary contacts v. 5 mA) switching capacity current with inductive load liputs/Outputs product function at the relay outputs switchover delayed/without delay non-volabile No  Electromagnetic compatibility  ENC immunity according to IEC 61000-4-4 at ue to burst according to IEC 61000-4-2 at ue to conductor-conductor surge according to IEC 61000-4-5 at ue to conductor-conductor surge according to IEC 61000-4-5 at ue to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 at Volume electrostatic discharge according to IEC 61000-4-3 beliectrostatic discharge according to I		
• at 250 V  operational current of auxiliary contacts as NO contact at AC-15  • at 24 V  operational current of auxiliary contacts at DC-13  operational current of auxiliary contacts at DC-13  • at 250 V  operational current of auxiliary contacts at DC-13  • at 24 V  • at 125 V  • at 250 V  operating frequency with 3RT2 contactor maximum  contact reliability of auxiliary contacts  contact rating of auxiliary contacts according to UL  switching capacity current with inductive load  inputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay  • non-volatile  No  Electromagnetic compatibility  Electromagnetic compatibility  Electromagnetic conductor-earth surge according to IEC  61000-4-5  • due to conductor-earth surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-conductor surge according to IEC  61000-4-5  • due to conductor-		0.4
operational current of auxiliary contacts as NO contact at AC-15		
contact at AC-15  at 24 V  at 250 V  operational current of auxiliary contacts at DC-13  operational current of auxiliary contacts at DC-13  at 24 V  at 125 V  other contact reliability of auxiliary contacts  operating frequency with 3RT2 contactor maximum  contact reliability of auxiliary contacts  one incorrect switching operation of 100 million switching operations (17 V, 5 mA)  contact rating of auxiliary contacts  contact rating of auxiliary contacts  one incorrect switching operation of 100 million switching operations (17 V, 5 mA)  contact rating of auxiliary contacts according to UL  switching capacity current with inductive load  inputs/ Outputs  product function  at the relay outputs switchover delayed/without delay  non-volatile  Electromagnetic compatibility  ENC immunity according to IEC 61812-1  conducted interference  due to burst according to IEC 61800-4-4  due to conductor-carth surge according to IEC  61000-4-5  due to conductor-conductor surge according to IEC  61000-4-5  due to conductor-conductor surge according to IEC  61000-4-5  due to conductor-conductor surge according to IEC  61000-4-5  selectrostatic discharge according to IEC 61000-4-3  electrostatic discharge accordi		3 A
at 24 V at 250 V operational current of auxiliary contacts at DC-13  at 24 V at 125 V at 250 V other at 250 V other at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts witching capacity current with inductive load Inputs/ Outputs  product function at the relay outputs switchover delayed/without delay on-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1 conducted interference due to burst according to IEC 61000-4-4 due to conductor-conductor surge according to IEC 61000-4-5 field-based interference according to IEC 61000-4-2 electrostatic discharge according to IEC 61000-4-2 safety related data type of insulation category according to EN 954-1 connections/ Torminals product component removable terminal for auxiliary and control circuit type of connectable connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections e solid e finely stranded with core end processing e finely stranded without core end processing e at AWG cables solid		
e at 250 V  operational current of auxiliary contacts at DC-13  operational current of auxiliary contacts at DC-13  e at 24 V  e at 125 V  o at 250 V  operating frequency with 3RT2 contactor maximum  contact reliability of auxiliary contacts  contact rating of auxiliary contacts  at the relay outputs switchover delayed/without delay  e non-volatile  Electromagnetic compatibility  Electromagnetic compatibility  Electromagnetic compatibility  Electromagnetic compatibility  Electromagnetic compatibility  Electromagnetic compatibility  EMC limmunity according to IEC 61000-4-4  e due to conductor-earth surge according to IEC 61000-6-2  conducted interference  e due to conductor-conductor surge according to IEC 61000-4-5  e due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-2  safety rolated data  Type of insulation  category according to EN 954-1  connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of connectable conductor cross-sections  e solid  inely stranded with core end processing  e finely stranded with core end processing  e finely stranded with core end processing  e finely stranded with core end processing  e at AWG cables solid		3 Δ
operational current of auxiliary contacts at DC-13 operational current of auxiliary contacts at DC-13 at 24 V at 125 V at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts contact rating of auxiliary contacts contact full of auxiliary contact full of auxiliary contact full of auxiliary contact full of auxiliary contact discharge / 8 kV air discharge  screw-type terminals  1x (0.2 2.5 mm²) 1x (0.2 1.5 mm²)	***= ' '	
operational current of auxiliary contacts at DC-13  • at 125 V • at 250 V • at 250 V  operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts  contact reting of auxiliary contacts  contact rating of auxiliary contacts according to UL switching capacity current with inductive load  inputs/ Outputs  product function • at the relay outputs switchover delayed/without delay • non-volatile  No  Electromagnetic compatibility EMC immunity according to IEC 61800-4-4 • due to burst according to IEC 61000-4-4 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-3 field-based interference according		
at 24 V at 125 V at 250 V  operating frequency with 3RT2 contactor maximum  contact reliability of auxiliary contacts  contact rating of auxiliary contacts  contact rating of auxiliary contacts according to UL switching capacity current with inductive load  inputs/ Outputs  product function  at the relay outputs switchover delayed/without delay  non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference  due to burst according to IEC 61000-4-4 due to conductor-card surge according to IEC 61000-4-3 due to conductor-conductor surge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 alectromagnetic discharge according to IEC 61000-4-2 field-based interference according to IEC 61000-4-2 safety related data type of insulation category according to EN 954-1 connections/ Terminals product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections  solid finely stranded with core end processing finely stranded without core end processing at AWG cables solid  1 A 0.1 A 0.0 II.A 0.1 A 0.0 II.A 0.0 II	· · · · · · · · · · · · · · · · · · ·	
• at 125 V • at 250 V		1 A
• at 250 V operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts  one incorrect switching operation of 100 million switching operations (17 V, 5 mA)  contact rating of auxiliary contacts according to UL switching capacity current with inductive load Inputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1 conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5  selectrostatic discharge according to IEC 61000-4-2  safety related data type of insulation category according to EN 954-1 connections/ Terminals  product component removable terminal for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid  1x (0.2 1.5 mm²) • at AWG cables solid		
operating frequency with 3RT2 contactor maximum contact reliability of auxiliary contacts  contact rating of auxiliary contacts according to UL switching capacity current with inductive load  Inputs/Outputs  product function  at the relay outputs switchover delayed/without delay  non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61000-4-4  due to conductor-earth surge according to IEC 61000-4-5  due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-2  lectrostatic discharge according to IEC 61000-4-2  Safety related data type of insulation category according to EN 954-1  connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  solid  finely stranded with core end processing  at AWG cables solid  1x (0.2 1.5 mm²)		
contact reliability of auxiliary contacts  contact rating of auxiliary contacts according to UL switching capacity current with inductive load  nputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation category according to EN 954-1  Connections/ Torminals  product component removable terminal for auxiliary and control circuit  type of connectable conductor cross-sections  • solid • finely stranded with core end processing • finely stranded with core end processing • at AWG cables solid		777.7.1
contact rating of auxiliary contacts according to UL switching capacity current with inductive load  Inputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data type of insulation category according to IEN 954-1  connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • at AWG cables solid		
contact rating of auxiliary contacts according to UL switching capacity current with inductive load  Inputs/ Outputs  product function  • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-carth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-5 • field-based interference according to IEC 61000-4-2  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of standed with core end processing • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid  R150 / 18300  0.01 3 A  0.01 3 A  0.01 3 A  0.01 3 A  0.02 1.5 mm²  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)	contact remaining of auxiliary contacts	
switching capacity current with inductive load Inputs/ Outputs  product function • at the relay outputs switchover delayed/without delay • non-volatile  Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference • due to burst according to IEC 61000-4-4 • due to conductor-earth surge according to IEC 61000-4-5 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • due to fooductor-conductor surge according to IEC 61000-4-3 • due to conductor-conductor surge according to IEC 61000-4-3 • delectrostatic discharge according to IEC 61000-4-3 • delectrostatic discharge according to IEC 61000-4-2 • k kV contact discharge / 8 kV air discharge  Safety related data  type of insulation category according to EN 954-1  connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections • solid • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • at AWG cables solid	contact rating of auxiliary contacts according to UL	R150 / B300
product function	switching capacity current with inductive load	0.01 3 A
product function	Inputs/ Outputs	
electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference  e due to burst according to IEC 61000-4-4  e due to conductor-earth surge according to IEC 61000-4-5  e due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of ensulation connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  1 x (0.2 2.5 mm²)  1 x (0.2 1.5 mm²)  1 x (0.2 1.5 mm²)  1 x (0.2 1.5 mm²)	product function	
electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference  e due to burst according to IEC 61000-4-4  e due to conductor-earth surge according to IEC 61000-4-5  e due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of ensulation connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  1 x (0.2 2.5 mm²)  1 x (0.2 1.5 mm²)  1 x (0.2 1.5 mm²)  1 x (0.2 1.5 mm²)		No
Electromagnetic compatibility  EMC immunity according to IEC 61812-1  conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • at AWG cables solid  EN 61000-6-2  2 kV network connection / 1 kV control circuit  1 kV  8 kV air discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV contact discharge / 8 kV air discharge  1 kV control circuit screw-1 kV control circuit sc		
EMC immunity according to IEC 61812-1  conducted interference  due to burst according to IEC 61000-4-4  due to conductor-earth surge according to IEC 61000-4-5  due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  e solid  finely stranded with core end processing  e at AWG cables solid  EN 61000-6-2  EN 61000-6-1  EN 61000-6-2  EN 61000-6-1  EN 6100	• non-volatile	No
conducted interference  • due to burst according to IEC 61000-4-4  • due to conductor-earth surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3  electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • at AWG cables solid  2 kV network connection / 1 kV control connection  2 kV  No  10 V/m  Basic insulation  none  No  No  11 kV  6 No  12 kV  13 kV  14 kV contact discharge / 8 kV air discharge  15 kV contact discharge  16 kV ontact discharge  16 kV ontact discharge  18 kV air discharge  18 kV air discharge  18 kV air discharge  18 kV contact discharge  18 kV contact discharge  18 kV air discharge  18 kV contact discharge  18 kV contact discharge  18 kV air discharge  18 kV contact discharge  18 kV contact discharge  18 kV contact discharge  18 kV air discharge  18 kV contact discharge  18 kV air discharge  18 kV contact	Electromagnetic compatibility	
• due to burst according to IEC 61000-4-4     • due to conductor-earth surge according to IEC 61000-4-5     • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • at AWG cables solid  • due to conductor crossing to IEC 61000-4-2 2 kV  1 kV  6 to V/m  4 kV contact discharge / 8 kV air discharge  8 kV air discharge  No  No  10 V/m  9 kV contact discharge / 8 kV air discharge  10 V/m  9 kV contact discharge / 8 kV air discharge  10 V/m  9 kV contact discharge / 8 kV air discharge  10 V/m  10	EMC immunity according to IEC 61812-1	EN 61000-6-2
• due to conductor-earth surge according to IEC 61000-4-5      • due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • at AWG cables solid  • due to conductor conductor in IEC 61000-4-2  1 kV  1 ontact discharge / 8 kV air discharge       8 kV air discharge  1 kV  1 kV  6 insulation  none  Connections/ Terminals  No  1 x (0.2 2.5 mm²)  1 x (0.2 2.5 mm²)  1 x (0.2 1.5 mm²)	conducted interference	
e due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 10 V/m  electrostatic discharge according to IEC 61000-4-2 4 kV contact discharge / 8 kV air discharge  Safety related data  type of insulation Basic insulation none  Connections/ Terminals  product component removable terminal for auxiliary and control circuit type of electrical connection for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections  ● solid 1x (0.2 2.5 mm²)  ● finely stranded with core end processing 1x (0.2 1.5 mm²)  ● finely stranded without core end processing 1x (0.2 1.5 mm²)  ● at AWG cables solid 1x (24 14)	<ul> <li>due to burst according to IEC 61000-4-4</li> </ul>	2 kV network connection / 1 kV control connection
due to conductor-conductor surge according to IEC 61000-4-5  field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections     • solid     • finely stranded with core end processing     • finely stranded without core end processing     • at AWG cables solid  1 kV  10 V/m  8 kV contact discharge / 8 kV air discharge  10 V/m  10 Vim  10		2 kV
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  screw-type terminals  1x (0.2 2.5 mm²)  • finely stranded with core end processing • at AWG cables solid  1x (24 14)		
field-based interference according to IEC 61000-4-3 electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid  10 V/m  4 kV contact discharge / 8 kV air discharge  4 kV contact discharge / 8 kV air discharge  5 kV air discharge  4 kV contact discharge / 8 kV air discharge  5 kV air discharge  5 kV air discharge  5 kV air discharge  6 kV air discharge  5 kV air discharge  6 kV air discharge  7 kV contact discharge  8 kV air dischar		1 kV
electrostatic discharge according to IEC 61000-4-2  Safety related data  type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections  • solid  1x (0.2 2.5 mm²)  • finely stranded with core end processing  • tx (0.2 1.5 mm²)  • at AWG cables solid  4 kV contact discharge / 8 kV air discharge  4 kV contact discharge / 8 kV air discharge  4 kV contact discharge / 8 kV air discharge  4 kV contact discharge / 8 kV air discharge  4 kV contact discharge / 8 kV air discharge		10 V/m
type of insulation  category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit screw-type terminals  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid  Basic insulation  No  100  100  100  100  100  100  100		
type of insulation category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid  Basic insulation  No  10  10  10  10  10  10  10  10  10  1		The contact discharge 7 of the all discharge
category according to EN 954-1  Connections/ Terminals  product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  screw-type terminals  type of connectable conductor cross-sections  • solid  • solid  • finely stranded with core end processing  • finely stranded without core end processing  • at AWG cables solid  none  No  1x (0.2 2.5 mm²)  1x (0.2 2.5 mm²)  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)		Rasic insulation
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing • finely stranded without core end processing • at AWG cables solid  No  Screw-type terminals  1x (0.2 2.5 mm²)  1x (0.25 1.5 mm²)  1x (0.25 1.5 mm²)  1x (0.2 1.5 mm²)	<u> </u>	
product component removable terminal for auxiliary and control circuit  type of electrical connection for auxiliary and control circuit  type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • finely stranded without core end processing  • at AWG cables solid  No  1x (0.2 2.5 mm²)  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)		HOTIC
and control circuit  type of electrical connection for auxiliary and control circuit  screw-type terminals  type of connectable conductor cross-sections  • solid  1x (0.2 2.5 mm²)  • finely stranded with core end processing  • finely stranded without core end processing  • at AWG cables solid  1x (0.2 1.5 mm²)  1x (0.2 1.5 mm²)		No
type of connectable conductor cross-sections  • solid  • finely stranded with core end processing  • finely stranded without core end processing  • at AWG cables solid  1x (0.2 2.5 mm²)  1x (0.25 1.5 mm²)  1x (0.2 1.5 mm²)  1x (24 14)		INU
<ul> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>1x (0.2 2.5 mm²)</li> <li>1x (0.25 1.5 mm²)</li> <li>1x (0.2 1.5 mm²)</li> <li>1x (24 14)</li> </ul>	type of electrical connection for auxiliary and control circuit	screw-type terminals
<ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>1x (0.25 1.5 mm²)</li> <li>1x (0.2 1.5 mm²)</li> <li>1x (24 14)</li> </ul>	type of connectable conductor cross-sections	
<ul> <li>finely stranded without core end processing</li> <li>at AWG cables solid</li> <li>1x (0.2 1.5 mm²)</li> <li>1x (24 14)</li> </ul>	• solid	1x (0.2 2.5 mm²)
• at AWG cables solid 1x (24 14)		1x (0.25 1.5 mm²)
		1x (0.2 1.5 mm²)
1.404.0	finely stranded without core end processing	
• at AWG cables stranded 1x (24 14)		
connectable conductor cross-section		1x (24 14) 1x (24 14)
• solid 0.2 2.5 m <sup>2</sup>	<ul><li>at AWG cables solid</li><li>at AWG cables stranded</li></ul>	
• finely stranded with core end processing 0.25 1.5 m <sup>2</sup>	at AWG cables solid     at AWG cables stranded  connectable conductor cross-section	1x (24 14) 0.2 2.5 m <sup>2</sup>
• finely stranded without core end processing 0.2 1.5 m²	<ul> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> </ul>	1x (24 14) 0.2 2.5 m <sup>2</sup>
AWG number as coded connectable conductor cross	<ul> <li>at AWG cables solid</li> <li>at AWG cables stranded</li> <li>connectable conductor cross-section</li> <li>solid</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>	1x (24 14) 0.2 2.5 m <sup>2</sup> 0.25 1.5 m <sup>2</sup>

section	
• solid	24 14
• stranded	24 14
Installation/ mounting/ dimensions	213.11
mounting position	any
fastening method	snap-on fastening on 35 mm standard rail
height	90 mm
width	17.5 mm
depth	66.7 mm
required spacing	
with side-by-side mounting	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
<ul> <li>for grounded parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— at the side	0 mm
— downwards	0 mm
<ul> <li>for live parts</li> </ul>	
— forwards	0 mm
— backwards	0 mm
— upwards	0 mm
— downwards	0 mm
— at the side	0 mm
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
<ul> <li>during operation</li> </ul>	-25 +55 °C
<ul><li>during storage</li></ul>	-40 +70 °C
during transport	-40 +70 °C
relative humidity during operation	15 85 %
Certificates/ approvals	

**Declaration of EMC General Product Approval** Conformity



Confirmation









Declaration of Conformity

**Test Certificates** 

other



Type Test Certificates/Test Report

Confirmation

**Environmental Confirmations** 

## **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=7PV1512-1AQ30

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=7PV1512-1AQ30

 $\label{lem:service-support} \textbf{Service\&Support (Manuals, Certificates, Characteristics, FAQs,...)} \\ \underline{\texttt{https://support.industry.siemens.com/cs/ww/en/ps/7PV1512-1AQ30}} \\ \\$ 

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=7PV1512-1AQ30&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=7PV1512-1AQ30&lang=en</a>

**Characteristic: Derating** 

https://support.industry.siemens.com/cs/ww/en/ps/7PV1512-1AQ30/manual

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