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Data sheet 6GF3420-0AA20

product type designation	**MV420 SR-B code reader**
	- - spare part - - SIMATIC MV420 SR-B; base model compact optical reader for 1D and 2D codes; IP67.



product brand name	SIMATIC MV
Technical Product Detail Page	https://i.siemens.com/1P6GF3420-0AA20
suitability for operation	1D codes: Int. 2/5, Code 128, Code 39, EAN 13, EAN 8, UPC-A, UPC-E, GS1, 2D codes: DMC, PDF417 (without: Truncated, Micro and Macro), QR (without: Micro and Macro), Vericode
interfaces	
type of electrical connection	
● of Industrial Ethernet interface	M12, d-coded
● of the RS 422 interface	M16, 12-pin, male
● of the RS 232 interface	M16, 12-pin, male
● for supply voltage	M16, 12-pin, male
● at the digital inputs/outputs	M16, 12-pin, male
number of digital inputs	3
number of digital outputs	3
digital input version	1 high-speed trigger input, 2 opto-isolated inputs (NPN, PNP capability) optionally as output
digital output version	1 high-speed strobe output for external lighting, 2 isolated outputs optionally as input, short-circuit-proof, max. 100 mA
optical data	
design of image sensor / of the camera	CMOS chip, VGA (640 x 480), WVGA (752 x 480)
type of image capture	Global shutter
range	10 ... 400 mm
range / note	Adjustable within the range
fastening method / of lens	Fixed (M12)
type of light source	Integrated lighting or external lighting according to accessories list
picture recording frequency / maximum	50 Hz
code reading rate / maximum	29 1/s
type of focusing	Manual adjustment on the lens cover
supply voltage, current consumption, power loss	
supply voltage / at DC	
● rated value	24 V
●	19.2 ... 28.8 V
consumed current / at DC / at 24 V	
● typical	0.17 A
● maximum	2 A
buffering time / in the event of power failure / minimum	0.01 s
mechanical data	
material	Die-cast aluminum
color	petrol blue

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ambient conditions	
ambient temperature	
● during operation	50 °C
● during storage	-30 ... +70 °C
● during transport	-30 ... +70 °C
relative humidity / at 25 °C / without condensation / during operation / maximum	95 %
protection class IP	IP67
shock resistance	According to IEC 60068-2
shock acceleration	150 m/s²
vibrational acceleration	10 m/s²
design, dimensions and weights	
width	52.5 mm
height	70.7 mm
depth	39.5 mm
net weight	0.25 kg
fastening method	2 x M4 screws
product features, product functions, product components / general	
display version	4 LEDs
protocol / is supported / Media Redundancy Protocol (MRP)	No
product function / of the PROFINET IO device / is supported / H-Sync forwarding	No
protocol / is supported	
● LLDP	Yes
● PROFINET IO protocol	Yes
● TCP/IP	Yes
● SNMP v1	Yes
● SNMP v2	No
● SNMP v3	No
● DCP	Yes
● EtherNet/IP protocol	No
● OPC UA	No
product feature / silicon-free	Yes
standards, specifications, approvals	
certificate of suitability	CE, KCC, F&B suitable, UL
MTBF	95 a
accessories	
accessories	Mounting brackets, built-in ring lamps, M12 lenses
further information / internet links	
internet link	
● to website: Selection guide for cables and connectors	https://support.industry.siemens.com/cs/ww/en/view/109766358
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: identification and localization systems	https://www.siemens.com/ident
● to web page: SiePortal	https://sieportal.siemens.com/
● to website: Image database	https://www.automation.siemens.com/bilddb
● to website: CAx-Download-Manager	https://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
security information	
security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available

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