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Data sheet 6GF3420-0AA40

product type designation	**MV420 SR-P code reader**
	********** spare part ********* SIMATIC MV420 SR-P; performance model; compact optical reader for 1D and 2D codes; IP67; including multicode, autotrigger and ID-Genius; very high read speeds.

suitability for operation	1D codes: Int. 2/5, Code 128, Code 39, EAN 13, EAN 8, UPC-A, UPC-E, GS1, 2D codes: DMC, dot code, 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	80 Hz
code reading rate / maximum	50 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
● at DC	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
ambient conditions	
ambient temperature	
● during operation	50 °C

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● 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 web page: selection aid TIA Selection Tool	https://support.industry.siemens.com/cs/ww/en/view/67384964
● to website: Industrial communication	http://www.siemens.com/codereader
● to website: Industry Mall	https://mall.industry.siemens.com
● to website: Information and Download Center	http://www.siemens.com/industry/infocenter
● to website: Image database	http://automation.siemens.com/bilddb
● to website: CAx-Download-Manager	http://www.siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

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