YASKAWA

Data sheet
smartPanel TP304-SM (H41-71A41-0)

Technical data

Order no.	H41-71A41-0
Type	smartPanel TP304-SM
General information	
Note	-
Features	Display: 4.3" Processor: Cortex-A8 | 1GHz Work memory [MB]: 512 User memory [GB]: 4 Interface onboard: 1x RS232/422/485 | 1x USB-A | 1x RJ45 (Ethernet) Software: WEC 7 | Movicon 11 CE Standard
Display	
Display size (diagonal)	4.3 "
Display size (width)	95 mm
Display size (height)	54 mm
Resolution	272 x 480 / 480 x 272
Aspect ratio	16:9
Type of display	TFT color (64K colors)
MTBF Backlights (25°C)	20000 h
System properties	
Processor	Cortex-A8 1000 MHz
Operating system	Windows Embedded Compact 7
User software	Movicon 11 CE Standard
Work memory	512 MB
User memory	4 GB
Available memory (user data)	2 GB
SD/MMC Slot	-
CF Card Slot Typ II	-
CFast Slot	-
Time	
Real-time clock buffered	yes
Clock buffered period (min.)	2 w
Type of buffering	Goldcap
Load time for 50% buffering period	5 h
Load time for 100% buffering period	10 h
Accuracy (max. deviation per day)	8 s
Operating controls	
Touchscreen	resistive
Touch function	Single Touch
Keyboard	external via USB
Mouse	external via USB
Interfaces	
MPI, PROFIBUS-DP	-
MPI, PROFIBUS-DP connector	-
Serial, COM1	RS232 / RS422 / RS485

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COM1 connector	Sub-D, 9-pin, male
Serial, COM2	-
COM2 connector	-
Number of USB-A interfaces	1
USB-A connector	USB-A (host)
Number of USB-B interfaces	-
USB-B connector	-
Number of ethernet interfaces	1
Ethernet	Ethernet 10/100 MBit
Ethernet connector	RJ45
Integrated ethernet switch	-
Video connectors	-
Audio connections	-
Technical data power supply	
Power supply (rated value)	DC 24 V
Power supply (permitted range)	18 - 32 VDC
Reverse polarity protection	yes
Current consumption (no-load operation)	0.1 A
Current consumption (rated value)	0.25 A
Inrush current	38 A
I^2t	0.33 A^2s
Power loss	6 W
Status information, alarms, diagnostics	
Status display	none
Supply voltage display	none
Mechanical data	
Housing / Protection class	
Material	PC + ABS
Mounting	mounting clips
Protection class IP front side	IP 66
Protection class IP back side	IP 20
Protection class NEMA front side	Type 2, 4X
Protection class NEMA back side	-
Dimensions	
Front panel	147 mm x 107 mm x 5 mm
Rear panel	133 mm x 93 mm x 29 mm
Installation cut-out	
Width	136 mm
Height	96 mm
Minimum	1.5 mm
Maximum front panel thickness	6 mm
Net weight	291 g
Weight including accessories	422 g
Gross weight	658 g
Environmental conditions	
Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to 70 °C
Certifications	

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UL certification	yes
KC certification	-
UKCA certification	-
ChinaRoHS certification	-
DNV certification	-
EU MR certification	-

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