Classification		Analogue Timer					
Model		H3DS-M/-S/-A	H3DS-F	H3DS-G			
Features		DIN Track Mounting, Standard 17.5 mm Width, Solid-state Multifunctional Timer with Smart Dial/Selector-locking Mecha- nism	DIN Track Mounting, Standard 17.5 mm Width, Solid-state Twin Timer with Smart Dial/Selector-locking Mechanism	DIN Track Mounting, Standard 17.5 mm Width, Solid-state Star-delta Timer with Smart Dial/Selector-locking Mechanism			
Appearance and dimensions		Screw-Less Clamp types available.  Screw-Less Clamp types available.		80 17.5 Screw-Less Clamp types available.			
Time range		0.1 s120 h	0.1 s12 h	1 s120 s			
Supply voltage		24230 VAC (50/60 Hz)/ 2448 VDC	24230 VAC (50/60 Hz)/ 2448 VDC	24230 VAC (50/60 Hz)/ 2448 VDC			
Power consumption		AC: 32 VA max./3.0 W max. (typical: 30 VAC/2.7 W) at 230 VAC, 14 VA max./2.2 W max. (typical: 13 VAC/2.1 W) at 100120 VAC DC: 0.7 W max. (typical: 0.6 W) at 24 VDC, 1.4 W max. (typical: 1.3 W) at 48 VDC	AC: 33 VA max./2.2 W max. (typical: 31 VAC/ 2.0 W) at 230 VAC, 11 VA max./1.9 W max. (typical: 9.7 VAC/ 1.7 W) at 100120 VAC DC: 0.7 W max. (typical: 0.6 W) at 24 VDC, 1.4 W max. (typical: 1.2 W) at 48 VDC	AC: 21 VA max./1.7 W max. (typical: 20 VAC/1.6 W) at 230 VAC 11 VA max./2.0 W max. (typical: 8.6 VAC/1.5 W) at 100120 VAC DC: 1.3 W max. (typical: 1.2 W) at 24 VDC 0.7 W max. (typical: 0.6 W) at 48 VDC			
Accuracy of ope	erating time	±1% max.	±1% max.	±1% max.			
Setting error		±10%±0.05 s max.	±10%±0.05 s max.	±10%±0.05 s max.			
Control output		5 A at 250 VAC/30 VDC	5 A at 250 VAC/30 VDC	5 A at 250 VAC/30 VDC			
Contact	Туре						
configuration	Time-limit	SPDT	SPDT	SPST-NO			
	Instantaneous						
Operating mode		A: ON-delay B: Flicker OFF start B2: Flicker ON start C: Signal ON/OFF-delay D: Signal OFF-delay E: Interval G: Signal ON/OFF-delay J: One-shot	Flicker OFF start/Flicker ON start With independent time setting for OFF and ON time	Star-delta operation			
Life	Mechanical	10 x 10 <sup>6</sup> operations	10 x 10 <sup>6</sup> operations	10 x 10 <sup>6</sup> operations			
Electrical (Resistive loa (see note 1)		100 x 10 <sup>3</sup> operations (5 A at 250 VAC)	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)			
EMC		Conforms to EN61812-1 (EMI: EN55011 class B)	Conforms to EN61812-1 (EMI: EN55011 class B)	Conforms to EN61812-1 (EMI: EN55011 class B)			
Approved safety standards (see note2)		UL, CSA, conforms to EN61812-1	UL, CSA, conforms to EN61812-1	UL, CSA, conforms to EN61812-1			
Socket	Front Connecting						
	Back Connecting						
Page No.		B-11	B-23	B-31			

Analogue Timers						
H3DS-X	H3DE-M/-S		H3DE-F	H3DE-G		
DIN Track Mounting, Standard 17.5 mm Width, Solid-state Two-wired Timer with Smart Dial/Selector-locking Mechanism	DIN Track Mountin 22.5 mm Width Tin	g, Standard ner	DIN Track Mounting, Standard 22.5 mm Width, Solid-state Twin timer	DIN Track Mounting Standard 22.5 mm Width, Solid-state Star-delta Timer		
80 73 79 22.5 Screw-Less Clamp types available.		79	79 22.5			
0.1 s120 h	0.10 s120 h		0.1 s12 h	1 s120 s		
		-0/C0 II-\				
24230 VAC/VDC (50/60 Hz)	24230 VAC/DC (5 12 VDC (H3DE-M2		24230 VAC/VDC (50/60 Hz)	24230 VAC/VDC (50/60 Hz)		
5 mA max.	H3DE-S1 AC: approx. 2.7 VA (1.6 W) at 230 VAC DC: approx. 0.7 W at 24 VDC		AC: approx. 3.1 VA (1.8 W) at 230 VAC DC: approx. 0.8 W at 24 VDC	AC: approx. 3 VA (1.8 W) at 230 VAC DC: approx. 0.8 W at 24 VDC		
±1% max.	±1% max.		±1% max.	±1% max.		
±10%±0.05 s max.	±10%±0.05 s max.		±10%±0.05 s max.	±10%±0.05 s max.		
SCR output: 5 mA0.7 A	5 A at 250 VAC/30	VDC	5 A at 250 VAC	5 A at 250 VAC		
	-M1/-S1	-M2/-S2				
SCR output	SPDT	SPDT	SPDT	SPDT		
		SPDT (Program- mable to Time- limit)				
ON-delay	A: ON-delay B: Flicker OFF start B2: Flicker ON start C: Signal ON/OFF-delay D: Signal OFF-delay E: Interval G: Signal ON/OFF-delay J: One-shot		Flicker-OFF/Flicker-ON start With independent time setting for OFF and ON time	Star-delta operation		
	10 x 10 <sup>6</sup> operations	S	10 x 10 <sup>6</sup> operations	10 x 10 <sup>6</sup> operations		
	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)		100 x 10 <sup>3</sup> operations (5 A at 250 VAC)	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)		
Conforms to EN61812-1 (EMI: EN55011 class B)	Conforms to EN61812-1 (EMI: EN55011 class B)		Conforms to EN61812-1 (EMI: EN55011 class B)	Conforms to EN61812-1 (EMI: EN55011 class B)		
UL, CSA, conforms to EN61812-1	UL, CSA, conforms to EN61812-1		UL, CSA, conforms to EN61812-1	UL, CSA, conforms to EN61812-1		
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Classification			Analogue Timers						
Model		H3DE-H	H3YN		H3RN				
Features		DIN Track Mounting, Standard 22.5 mm Width, Solid-state Power OFF-delay Timer	Miniature Timer with Multiple Time Ranges and Multiple Operating Modes		Ultra-slim timer for G2R relay socket				
Appearance and dimensions		79 22.5	28		31.2				
Time range		0.1 s120 s	0.1 s10 h		0.1 s10 h				
Supply voltage		100120 VAC (50/60 Hz) 200230 VAC (50/60 Hz) 24 VAC/VDC (50/60 Hz) 48 VAC/VDC (50/60 Hz)	24 VAC (50/60 Hz) 100120 VAC (50/60 Hz) 200230 VAC (50/60 Hz) 12, 24, 48, 100110, 125 VDC		24 VAC (50/60 Hz), 12, 24 VDC				
Power consumption		AC: approx. 1.6 VA (1.0 W) at 230 VAC DC: approx. 0.2 W at 24 VDC	100120 VAC: approx. 1.5 VA (1.3 W) 100110 VDC: approx. 1.3 W		24 VAC: approx. 0.8 VA (0.5 W) 24 VDC: approx. 0.5 W				
Accuracy of oper	rating time	±1% max.	±1% max.		±1% max.				
Setting error		±10%±0.05 s max.	±10%±0.05 s max.		±15%±0.05 s max.				
Control output		5 A at 250 VAC	5 A at 250 VAC/3 A at 250 VAC		3 A at 250 A				
Contact	Туре		-2/-21	-4/-41	-1/-11	-2/-21			
configuration	Time-limit	SPDT	DPDT	4PDT	SPDT	DPST-NO			
	Instantaneous								
Operating mode		Power OFF-delay	ON-delay Interval Flicker-ON		ON-delay Interval Flicker-ON				
Life	Mechanical	10 x 10 <sup>6</sup> operations	10 x 10 <sup>6</sup> operations		10 x 10 <sup>6</sup> operations				
Electrical (Resistive load) (see note 1)		100 x 10 <sup>3</sup> operations (5 A at 250 VAC)	4PDT: 200 x 10 <sup>3</sup> operations (3 A at 250 VAC) DPDT: 500 x 10 <sup>3</sup> operations (5 A at 250 VAC)		100 x 10 <sup>3</sup> operations (3 A at 250 VAC)				
EMC		Conforms to EN61812-1 (EMI: EN55011 class A)	Conforms to EN61812-1		Conforms to EN61812-1				
Approved safety standards (see note2)		UL, CSA, conforms to EN61812-1	UL, CSA, LR, conforms to EN61812-1		UL, CSA, conforms to EN61812-1				
Socket	Front Connecting		PYF		R2RF				
Back Connecting			PY screw type PYF screwless type		P2R screw type P2RF screwless type				
Page No.		B-77	B-87		B-99				

			Analogu	ıe Timers				
H3CR-A			H3CR-F	H3CR-G		H3CR-H		
DIN 48 x 48 mm, Multifunctional Timer with many time ranges, operating modes and wide power supply ranges Optional panel cover in black and gray available)			DIN 48 x 48 mm Solid-state Twin Timers	DIN 48 x 48 mm Solid-state Star-delta Timers		DIN 48 x 48 mm Solid-state Power OFF-delay Timers		
52.3 48 ( <b>E</b>			52.3 48 (E	48 48 ( <b>E</b>		48		
0.05 s600	h		0.05 s300 h	0.5120 s		0.05 s12 min		
100240 VA 100125 VE (50/60 Hz)/1	AC (50/60 Hz DC, 2448 VA 1248 VDC	)/ AC	100240 VAC (50/60 Hz), 12 VDC, 24 VDC/VAC (50/60 Hz), 48125 VDC	100120 VAC (50/6 (50/60 Hz)	0 Hz), 200240 VAC	200240 VAC (50 24 VAC/VDC (50/	100120 VAC (50/60 Hz), 200240 VAC (50/60 Hz), 24 VAC/VDC (50/60 Hz), 48 VDC, 100125 VDC	
H3CR-A/-A8 (When relay ON) AC: approx. 2.1 VA (1.6 W) at 240 VAC DC: approx. 0.8 W at 24 VDC (When relay OFF AC: approx. 1.3 VA (1.1 W) at 240 VAC DC: approx. 0.2 W at 24 VDC		VDC W) at 240	100240 VAC: approx. 10 VA (2.1 W) at 240 VAC 24 VAC/VDC: approx. 2 VA (1.7 W) at 24 VAC, approx. 1 W at 24 VDC 48125 VDC: approx. 1.5 W at 125 VDC 12 VDC: approx. 1 W at 12 VDC	100120 VAC: approx. 6 VA (2.4 W) at 120 VAC 200240 VAC: approx. 12 VA (3.0 W) at 240 VAC		100120 VAC: approx. 0.23 VA (0.22 W) at 120 VAC 200240 VAC: approx. 0.35 VA (0.3 W) at 240 VAC 24 VAC/DC: approx. 0.17 VA (0.15 W) at 24 VAC, approx. 0.1 W at 24 VDC 48 VDC: approx. 0.18 W at 48 VDC 100125 VDC: approx. 0.5 W at 125 VDC		
±0.2% max.			±0.2% max.	±0.2% max.		±0.2% max.		
±5%±0.05 s	max.		±5%±0.05 s max.	±5%±0.05 s max.		±5%±0.05 s max.		
5 A at 250 \	/AC		5 A at 250 VAC/30 VDC	5 A at 250 VAC/30 VDC		5 A at 250 VAC/30 VDC		
-A/-A8	-A8E	-AS/-ABS		-G8EL -G8L		-H8L/-HRL	-H8RL	
DPDT	SPDT	Solid-state	DPDT	SPST-NO	SPST-NO	DPDT	SPDT	
	SPDT			SPST-NO				
A: ON-delay B: Flicker OFF start B2: Flicker ON start C: Signal ON/OFF-delay D: Signal OFF-delay E: Interval G: Signal ON/OFF-delay J: One-shot		•	Flicker OFF start Flicker ON start With independent time setting for OFF and ON time	Star-delta timer Power OFF-delay				
20 x 10 <sup>6</sup> op	erations		20 x 10 <sup>6</sup> operations	20 x 10 <sup>6</sup> operations		10 x 10 <sup>6</sup> operations		
100 x 10 <sup>3</sup> operations (5 A at 250 VAC)			100 x 10 <sup>3</sup> operations (5 A at 250 VAC)	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)		100 x 10 <sup>3</sup> operations (5 A at 250 VAC)		
Conforms to EN61812-1			Conforms to EN61812-1	Conforms to EN61812-1		Conforms to EN61812-1		
UL, CSA, LR conforms to EN61812-1			UL, CSA, LR, conforms to EN61812-1	UL, CSA, LR, conforms to EN61812-1		UL, CSA, LR, conforms to EN61812-1		
P2CF			P2CF	P2CF		P2CF		
PL, P3G			P3G	P3G		P3G		
B-109			B-131	B-137		B-145		

Classification		Digital Timers					
Model		H8GN	H5CX		K3NP		
Features		Preset Counter/Timer	48 x 48 mm Multifunct	ional Digital Timer	1/8 DIN Period Meter 5-digit		
Appearance and dimensions			48		C € ® ®		
Time range		0.001 s9999 h	0.001 s9999 h		Hours, minutes and seconds		
Supply voltage		24 VDC	100240 VAC (50/60 Hz), 24 VAC (50/60 Hz) 12 to 24 VDC		100240 VAC (50/60 Hz), 12 to 24 VDC		
Power consumption		1.5 W max.	AC: approx. 6.2 VA at 264 VAC approx. 5.1 VA at 26.4 VAC DC: approx. 2.4 W at 12 VDC		Depending on the output board selection		
Accuracy of oper	rating time	Signal start: ±0.03% ±30 ms max. Power-ON start: ± 0.03% ± 50 ms max.	Power ON start: ±0.01%±0.05 s max. Signal start: ±0.005%±0.03 s max.		±0.08% rdg ±1 digit		
Setting error		No error	No error		No error		
Control output		3 A at 250 VAC/30 VDC, resistive load (cosf=1)	Contact output: 5 A at 250 VAC Solid state: 100 mA at 30 VDC		See available output board		
Contact	Туре		-A/-A11/-L8 -AS/-A11S/-L8S				
configuration	Time-limit	SPDT	SPDT Solid-state				
	Instantaneous						
Operating mode		A: ON-delay B: Flicker D: Signal OFF-delay E: Interval F: Accumulative Z: ON/OFF-duty adjustable flicker	A: Signal ON-delay A-1: Signal ON-delay 2 A-2: Power ON-delay 1 A-3: Power ON-delay 2 b: Repeat cycle 1 b-1: Repeat cycle 2 d: Signal OFF-delay E: Interval F: Cumulative Z: ON/OFF-duty adjustable flicker toff: Twin timer OFF start ton: Twin timer ON start		Passing speed Cycle Time difference Elapsed time Length measurement Interval		
Life expectancy	Mechanical	10 x 10 <sup>6</sup> operations	10 x 10 <sup>6</sup> operations				
Electrical (Resistive load) (see note 1)		100 x 10 <sup>3</sup> operations min. (3 A at 250 VAC)	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)				
EMC		Conforms to EN61326	Conforms to EN61326				
Approved safety standards (see note2)		UL, CSA, LR, conforms to EN61010-1, conforms to VDE0106/P100, CE marking	cULus, cURus, conforms to EN61010-1		UL, CSA, conforms to EN61010-1		
Socket	Front Connecting		P2CF				
	Back Connecting		P3G				
Page No.		C-61	B-161		B-195		

Motor Timer		Digital Timers		imers	Motor Timer	
H2C		H5CR		H5BR	H2A	
DIN-sized (48 x 48 Motor Timer with va				72 x 72 mm Timer with easy-to-use functions	Miniature, high-performance Motor Timer	
69.7 48 C		48 (6		72 C E	57.3	
0.2 s30 h (50/60 l	Hz)	0.001 s9999 h		0.001 s9999 h	0.2 s28 h (50/60 Hz)	
110, 115, 120, 220 (50/60 Hz), 100 VAC (50 Hz), 100/110 VAC (60 Hz), 200 VAC (50 Hz), 200/220 VAC (60 Hz),	Hz),	100240 VAC (50/60 Hz), 24 VAC (50/60 Hz),		100240 VAC (50/60 Hz), 24 VAC (50/60 Hz) 1224 VDC	100 VAC (50 Hz) 100/110 VAC (60 Hz) 200 VAC (50 Hz) 200/220 VAC (60 Hz)	
Approx. 3.5 VA (3.3	3 W)			AC: approx. 8 VA at 240 VAC DC: approx. 5 W at 24 VDC	Approx. 3 VA (2.7 W)	
±0.5% ±2% max. setting e	error	Power OFF start: ±0.01%±0.05 s max. Reset start: ±0.005%±0.03 s max.		Power start: ±0.01%±0.05 s max. Signal start: ±0.005%±0.03 s max.	±2% ±5% max. setting error	
6 A at 250 VAC		Contact output: 5 A at 250 VAC		Contact: 5 A at 250 VAC Solid state: 100 mA at 30 VDC	2 A at 250 VAC	
H2C/-8/-F/-R/-FR	-8R	-L/-B/-S	-LS/-BS/-SS		H2A-H	H2A
SPDT	SPDT	SPDT	Solid-state	SPDT, solid-state	SPDT	SPDT
SPDT					SPST-NO	
ON-delay		A: Signal ON-dela A-1: Signal ON-dela A-2: Power ON-del b: Repeat cycle 1 b-1: Repeat cycle 2 d: Signal OFF-de E: Interval F: Cumulative	ay 2 ay 1 ay 2 I 2	A: Signal ON-delay 1 A-1: Signal ON-delay 2 A-2: Power ON-delay 1 A-3: Power ON-delay 2 b: Repeat cycle 1 b-1: Repeat cycle 2 d: Signal OFF-delay E: Interval F: Cumulative	ON-delay	
30 x 10 <sup>6</sup> operations	S	10 x 10 <sup>6</sup> operations		10 x 10 <sup>6</sup> operations	1 x 10 <sup>6</sup> operations	
500 x 10 <sup>3</sup> operations (3 A at 250 VAC)		100 x 10 <sup>3</sup> operations (5 A at 250 VAC)		100 x 10 <sup>3</sup> operations (5 A at 250 VAC)	500 x 10 <sup>3</sup> operations (2 A at 250 VAC)	
Conforms to EN61812-1		Conforms to EN61326		Conforms to EN61326	Conforms to EN61812-1	
UL, CSA, conforms to EN61812-1		UL, CSA, conforms to EN61010-1		UL, CSA, conforms to EN61010-1	UL, CSA, conforms to EN61812-1	
PF, P2CF		P2CF			PF	
PL, P3G		P3G			PL, P3G	
B-221		This product is not sh For more information	nown in the catalogue please contact your l	e. ocal Omron sales office or download th	ne data from www.eu	omron.com

Classification		Motor Timer			
Model		НЗАМ			
Features		Large setting dial and moving pointers are ideal for easy operation and monitoring			
Appearance and	dimensions	96			
Time range		0.260 h (50/60 Hz)			
Supply voltage		100240 VAC (50/60 Hz)			
Power consumpt	on	Approx. 9 VA (5 W)			
Accuracy of oper	ating time	±0.7% max.			
Setting error		±2% max.			
Control output		5 A at 250 VAC			
Contact	Туре	-NS	-NSR		
configuration	Time-limit	SPDT	SPDT		
	Instantaneous	SPDT (Programma- ble to Time-limit)	SPDT		
Operating mode		ON-delay			
Life	Mechanical	50 x 10 <sup>5</sup> operations			
expectancy	Electrical (Resistive load) (see note 1)	100 x 10 <sup>3</sup> operations (5 A at 250 VAC)			
EMC		Conforms to EN61812-1			
Approved safety (see note2)	standards	UL, CSA, conforms to EN61812-1			
Socket	Socket Front Connecting				
Back Connecting					
Page No.		For more information	ffice or download the		