



TYPE APPROVAL CERTIFICATE

N. ELE147814CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	Modular timers
<i>Type</i>	80 and 83 Series
<i>Applicant</i>	Finder SpA Via Drubiaglio 14, 10040 Almese (TO) Italy
<i>Manufacturer</i>	Finder SpA Via Drubiaglio 14, 10040 Almese (TO) Italy
<i>Testing Standards</i>	Rules for the Classification of Ships – Part C _ Machinery, Systems and Fire protection - Ch. 3, Sect. 6, Table 1

Issued in Genova on September 22, 2014

This certificate is valid until September 22, 2019

RINA Services S.p.A.

Valerio Bonanni



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80 Series Modular Timers:

80.01 Multi-function (*), multi-voltage.			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
12 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) AI: On-delay ; DI: Interval ; SW: Simmetrical flasher (starting pulse on); BE: Off -delay with control signal; CE: On and Off delay with control signal; DE: Interval with control signal on Time scale: 0,1...2s, 1...20s, 0,1...2 min, 1...20min, 0,1...2h, 1...24h			
80.11 Mono-function (*), multi-voltage.			
Module Power Supply	Switching Rated current	Switching Rated voltage	Output
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) AI: On-delay Time scale: 0,1...2s, 1...20s, 0,1...2 min, 1...20min, 0,1...2h, 1...24h			
80.21 Mono-function (*), multi-voltage			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) DI: Interval Time scale: 0,1...2s, 1...20s, 0,1...2 min, 1...20min, 0,1...2h, 1...24h			
80.41 Mono-function (*), multi-voltage			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) BE: Off-delay with control signal Time scale: 0,1...2s, 1...20s, 0,1...2 min, 1...20min, 0,1...2h, 1...24h			
80.91 Mono-function (*), multi-voltage			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
12 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) LI: Asymmetrical flasher (starting pulse on) ; LE: Asymmetrical flasher (starting pulse on) with control signal Time scale: 0,1...2s, 1...20s, 0,1...2 min, 1...20min, 0,1...2h, 1...24h			
80.71 Multi-function (*), multi-voltage			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs Solid state
24 - 240Vac 50/60Hz	1A	24...240Vac/dc	1 NO (SPST)
(*) AI: On delay; DI: Interval; SW: Symmetrical flasher (starting pulse on); BE: Off-delay with control signal; CE: On and off delay with control signal; DE: Interval with control signal on Time scale: 0,1...2s, 1...20s, 0,1...2 min, 1...20min, 0,1...2h, 1...24h			
80.61 Mono-function (*), multi-voltage			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	8A	250Vac	1 CO (SPDT)
(*) BI: Power off-delay (true off-delay) Time scale: 0,05...2s, 1...16s, 8...70s, 50...180s			
80.82 Mono-function (*), multi-voltage			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	6A	250Vac	2 NO (DPST)
(*) SD: Star-delta - transfer time can be regulated Time scale: 0,1...2s, 1...20s, 0,1...2min, 1...20 min			

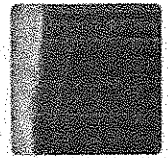


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83 Series modular Timers

83.01 Multi-function (*), multi-voltage, 1 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) AI: On-delay ; DI: Interval ; GI : Pulse delayed; SW: Simmetrical flasher (starting pulse on); WD: Watch dog ; BE: Off-delay with control signal; CE: On and Off delay with control signal; DE: Interval with control signal on; Eight time scale: 0.05 ...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05... 1h, 0,5...10h, 0,05...1d, 0,5...10d			
83.02 Multi-function (*), multi-voltage, 2 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Output
24 - 240Vac 50/60Hz	12A	250Vac	2 CO (DPDT)
(*) AI: On-delay; DI: Interval ; GI : Pulse delayed; SW: Simmetrical flasher (starting pulse on); WD: Watch dog ; BE: Off-delay with control signal; CE: On and Off delay with control signal; DE: Interval with control signal on; Timing can be regulated using ext. potentiometer; 2 timed contacts or 1 timed + 1 instantaneous contact. Eight time scale: 0.05 ...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05... 1h, 0,5...10h, 0,05...1d, 0,5...10d			
83.11 Mono-function (*), multi-voltage, 1pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) AI: On-delay Eight time scale: 0.05 ...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05... 1h, 0,5...10h, 0,05...1d, 0,5...10d			
83.21 Mono-function (*), multi-voltage, 1 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) DI: Interval Eight time scale: 0.05 ...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05... 1h, 0,5...10h, 0,05...1d, 0,5...10d			
83.41 Mono-function (*), multi-voltage, 1 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) BE: Off-delay with control signal Eight time scale: 0.05 ...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05... 1h, 0,5...10h, 0,05...1d, 0,5...10d			
83.52 Multi-function (*), multi-voltage, 2 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	2 CO (DPDT)
(*) AE: On delay with control signal; EEa: Interval with control signal off (retriggerable); FE: Interval with control signal On timing step; BEp: Off-delay with control signal and pause signal; DEp: Interval with control signal on and pause signal; SHp: "shower function" Eight time scale: 0.05 ...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05... 1h, 0,5...10h, 0,05...1d, 0,5...10d			
83.62 Multi-function (*), multi-voltage, 2 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	8A	250Vac	2 CO (DPDT)
(*) BI: Power off delay (True off delay) Time scale: 0.05...2s, 1...16s, 8...70s, 50...180s			
83.82 Mono-function (*), multi-voltage, 2 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	2 NO (DPST)
(*) SD: Star-Delta Time scale: 0.05...1s, 0,5...10s, 0,05...1min, 0,5...10min, 0,05...1h, 0,5...10h, 0,05...1d, 0,5...10d			



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83.91 Mono-function (*), multi-voltage, 1 pole			
Module Power Supply	Switching Rated current	Switching Rated voltage	Outputs
24 - 240Vac 50/60Hz	16A	250Vac	1 CO (SPDT)
(*) LI: Asymmetrical flasher (starting pulse on); LE: Asymmetrical flasher (starting pulse on) with control signal PI: Asymmetrical flasher (starting pulse off); PE: Asymmetrical flasher (starting pulse off) with control signal; Time scale: 0.05...1s, 0.5...10s, 0.05...1min, 0.5...10min, 0.05...1h, 0.5...10h, 0.05...1d, 0.5...10d			

TesLab test reports:

Doc. n. 146100F, 146101F, 146102F, 146103F, (2014/07/16)

IMQ Certificates:

Doc. n. CA02.04855, (2011/02/07) CA02.00540 (2012/06/06)

FINDER Data sheets :

80 Series - Modular timers 16 A (VII 2012)

83 Series - Modular timers 12-16A (X-2013)

General remarks:

Installation to be in accordance with manufacturer instruction.