



IBT TIMER



BCH ELECTRIC LIMITED
we care for you



On Delay

- Fixed Voltage, Fixed Time
- Wide range of input supply - 220VAC; 110VAC; 24V AC/DC
- Large calibrated dial for easy and accurate time setting
- LED indications for Input supply and Output status
- Surface mounting & DIN rail mounting
- 1 changeover relay output (SPDT)
- All Purpose On Delay timer



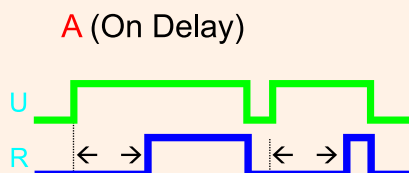
Specifications

Power Supply	240VAC, 110 VAC, 24 VAC/DC and 12VDC
Operating range	85 to 110% of rated voltage (85 to 120% for 12V)
Rated Frequency	50/60 Hz
Function	On Delay
Time Range (Fixed)	6S, 30S, 60S, 180S
Repeat Accuracy	±0.5% or 50ms (whichever is greater) with constant Parameters
Setting Accuracy	±5% of Full Scale at 25 °C
Temperature drift	±0.05% °C of full scale
Reset time	100ms
Minimum Pulse duration	30ms
Control Output	7A@250V, 1CO, resistive load
Operating Temperature	-20°C to + 50°C
Storage Temperature	-25°C to + 70°C
Size (WxHxD)	24mm X 45mm X 75mm
Life	Mechanical : 1 X 10 ⁷ operations. Electrical : 1 X 10 ⁵ operations with full load
Housing Material	Plastic

Ordering Information

IBT00 + 0 #	On delay		
" + " Voltage Code	" # " Time Range		
240V AC	1	0.6-6 Sec	1
110V AC	2	3 - 30 Sec	2
24V AC/DC	3	6 - 60 Sec	3
12V DC	4	18 - 180 Sec	4

Time Diagram





Multi Function

- 4 Functions - On delay, Interval, Off delay, Single Shot
- Multi Time Range - Sec / Min / Hr
- Universal Voltage - 24 V-230V AC/DC
- Large calibrated dial for easy and accurate time setting
- Compact Design
- LED indications for Input supply and Output status
- Surface mounting & DIN rail mounting
- 1 changeover relay output (SPDT)
- All Purpose Timer



Specifications

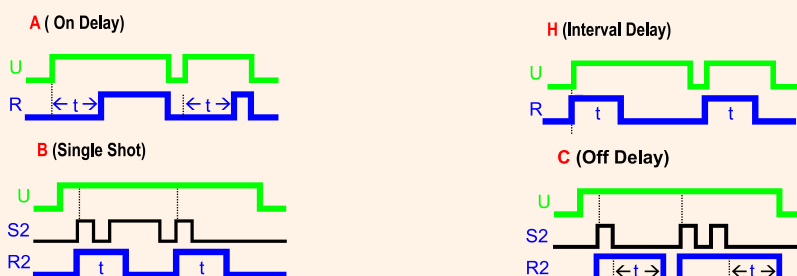
Power supply	24 - 240 V AC/DC,
Operating range	85 to 110% of rated voltage
Rated Frequency	50/60 Hz
Function	4 Function-On delay, Interval delay, Off delay & Single Shot
Time Range	6 Ranges - 1s, 10s, 1min, 10min, 1h, 10h
Repeat Accuracy	± 0.5% or 50ms (whichever is greater) with constant Parameters
Setting Accuracy	± 10% of full scale at 25 °C
Temperature drift	± 0.05% / °C of full scale
Reset time	100ms
Minimum Pulse duration	30 ms
Control Output	7A@250V, 1C/O, resistive load
Operating Temperature	-20°C to +50°C
Storage Temperature	-25°C to +70°C
Size (WxHxD)	24mm X 45mm X 75mm
Life	Mechanical : 1 X 10 ⁷ operations
	Electrical : 1 X 10 ⁵ operations with full load
Housing Material	Plastic

Ordering Information

IBT04500

On Delay, Interval Delay, Off Delay & Single Shot

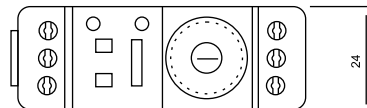
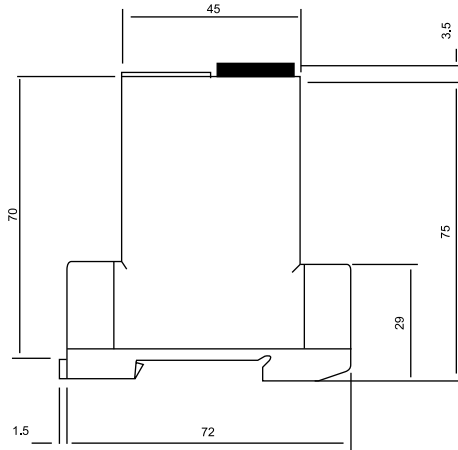
Timing Diagram





Dimensions

DIN RAIL MOUNTING OR BASE-MOUNTING IBT TIMERS



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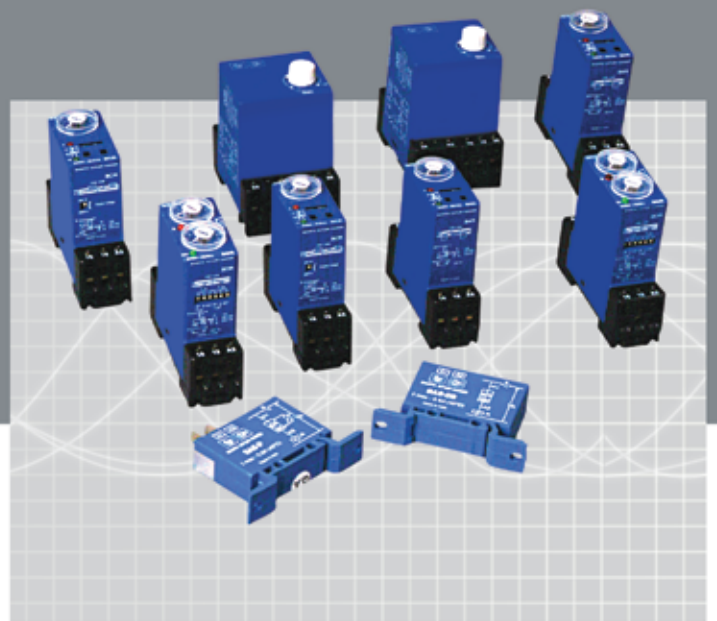
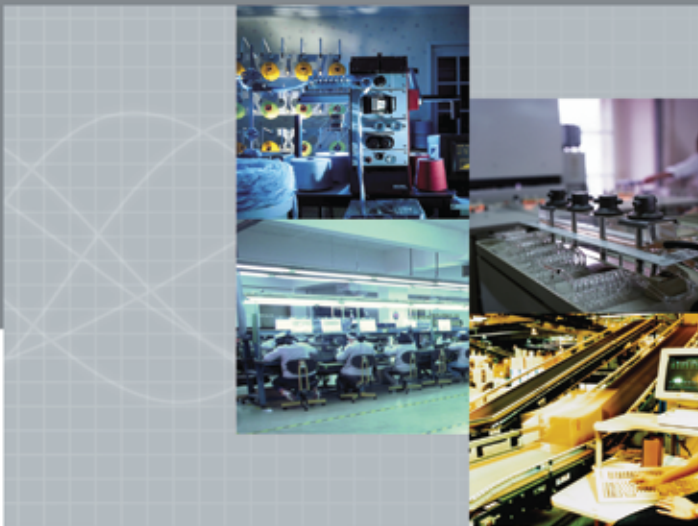
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Since product improvement is a continuous process, the data furnished in this brochure may undergo revision without prior notice.



ELECTRONIC TIMERS



BCH ELECTRIC LIMITED
we care for you



Electronic Timers

- Multi Function or Mono Function
- Multi Time Range
- Multi Voltage
- Large calibrated dial for easy and accurate time setting
- Compact Design
- LED indications for Input supply and Output status
- Surface mounting & DIN rail mounting
- Confirms to IEC 1000-4-2; IEC 1000-4-3; IEC 1000-4-4; IEC 1000-4-5; IEC 1000-4-6; IEC 1000-4-11, CISPR-22
- 1 changeover relay output (SPDT)
- Suitable for Sequence Control and other applications



Encapsulated Timers

- Mono Function
- Single time Range - Fixed or variable through potentiometer
- Fixed Voltage
- Solid State Output
- Surface mounting & DIN rail mounting
- Totally sealed with polyurethane resin for better protection
- General purpose On Delay timer
- Specially designed timer for compressor/Heat Pump applications also available

Ordering Information

SST00■0+	Encapsulated ON delay Timer
SST02■00	Encapsulated ON delay Timer for Compressor/Heat Pump
SBT00■00	Delay On Make (BAR)
SBT01■00	Delay On Break (BCR)
SBT02■00	Asymmetric Cycler (BDR)
SBT03■00	Multifunction (BLR)
SDT00■0#	Star Delta

■ Voltage code, + Timing range, # Timing range

Voltage Codes

Type	Voltage	Code
BAR, BCR, BDR, BLR	24V AC/DC & 240V AC	1
	24V AC/DC & 110V AC	2
	24V AC	4
	12V DC	5
DQR	415 V AC / 240V AC	0
	240V AC	1
	110 V AC	2
SST	240V AC	1
	110V AC	2
	48V AC/DC	3
	24V AC/DC	4

Time Ranges

Type	Timing	Code
Encapsulated - SST (+)	0.1 - 10 Sec.	1
	1 - 100 Sec.	2
	3 - 300 Sec.	3
DQR (#)	20 Sec.	0
	40 Sec.	1
	100 Sec.	2

Electronic Timers



	BAR	BCR	BDR	BLR	DQR
Function	Delay on Make Function A	Delay on Break Function C	Asymmetric Cycler Function D & Di	Multifunction Function A, B, C & H	Star-Delta Function Q
Power Supply	24V AC/DC & 240V AC	24V AC/DC & 240V AC	24V AC/DC & 240V AC	24V AC/DC & 240V AC	415V AC / 240V AC
	24V AC/DC & 110V AC	24V AC/DC & 110V AC	24V AC/DC & 110V AC	24V AC/DC & 110V AC	240V AC
	12V DC	12V DC	12V DC	12V DC	110V AC
	24V AC	24V AC	24V AC	24V AC	
Supply Tolerance	85% to 110% of rated supply	85% to 110% of rated supply	85% to 110% of rated supply	85% to 110% of rated supply	85% to 110% of rated supply
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Time Range	0.1 Sec to 10 Hours	0.1 Sec to 10 Hours	0.1 Sec to 10 Hours	0.1 Sec to 10 Hours	0.2 Sec to 20 Sec 1 Sec to 100 Sec
Repeat accuracy	± 0.2 % at constant ambient ± 1.5% within temp. variation	± 0.2 % at constant ambient ± 1.5% within temp. variation	± 0.2 % at constant ambient ± 1.5% within temp. variation	± 0.2 % at constant ambient ± 1.5% within temp. variation	± 0.5 % at constant ambient ± 3.0% within temp. variation
Reset Time	50ms after timing 100ms during timing	100ms Max	50ms after timing ON 100ms during timing OFF	100ms Max	100ms during & after timing
Minimum Impluse Time		20ms		20 ms	
Output	SPDT relay, 10A @ 220V AC resistive load	SPDT relay, 10A @ 220V AC resistive load	SPDT relay, 10A @ 220V AC resistive load	SPDT relay, 10A @ 220V AC resistive load	2 C/O relay, 10A @ 220V AC resistive load
Life expectancy -Electrical - Mechanical	2x10 ⁵ operations	2x10 ⁵ operations	2x10 ⁵ operations	2x10 ⁵ operations	2x10 ⁵ operations
	2x10 ⁷ operations	2x10 ⁷ operations	2x10 ⁷ operations	2x10 ⁷ operations	2x10 ⁷ operations
No. of Operations	600 operations/hour at full load	600 operations/hour at full load	600 operations/hour at full load	600 operations/hour at full load	
Power Consumption	7 VA at 220V AC	7 VA at 220V AC	7 VA at 220V AC	7 VA at 220V AC	7 VA at 220V AC
Operating Temp	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Peak Current	15A < 0.01 Sec	15A < 0.01 Sec	15A < 0.01 Sec	15A < 0.01 Sec	15A < 0.01 Sec
Max. Switching Voltage	250V AC/DC	250V AC/DC	250V AC/DC	250V AC/DC	250V AC/DC
Approx. weight	80g	80g	80g	80g	100g

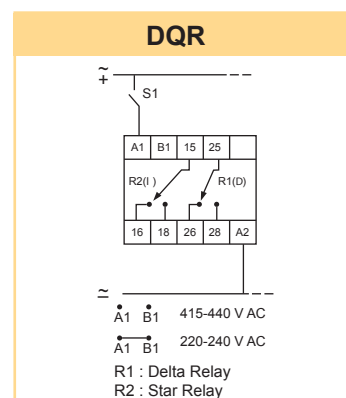
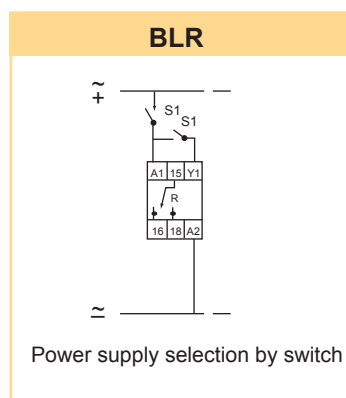
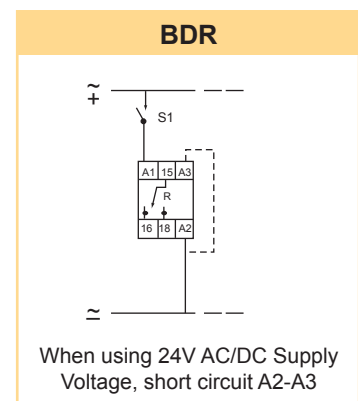
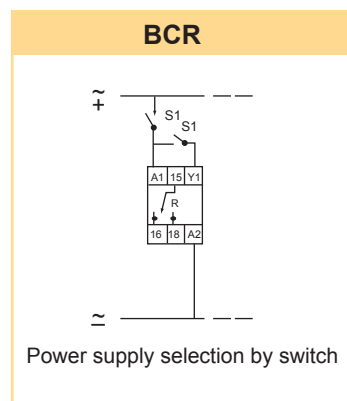
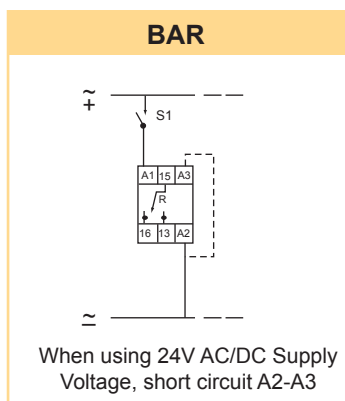


Encapsulated Timers

	SST 00	SST 02
Function	Delay on Make Function A	Special timer for compressor protection & heat pumps
Power Supply	220/240 V AC; 110V AC; 48V AC/DC; 24V AC/DC	220/240 V AC; 110V AC; 48V AC/DC; 24V AC/DC
Supply Tolerance	80% to 120% of rated supply	80% to 120% of rated supply
Frequency	50/60 HZ	50/60 HZ
Time Range	0.1-10 Sec; 1-100 Sec; 3-300 Sec	Fixed Timing - 3 min / 5 min
Repeat accuracy	± 0.5% at constant ambient ± 5% within temp. variation	± 0.4% at constant ambient ±10% within temp. variation
Reset Time	25ms after timing 150ms during timing	25ms after timing
Output	Solid State Output $I_{\max} : 0.6 \text{ A}$ (at 40°C)	Solid State Output $I_{\max} : 0.6 \text{ A}$ (at 40°C)
Leakage current	5 mA Max	6 mA Max
Voltage drop	3.5V	3.5V
Operating Temp	-20°C to + 60°C	-20°C to + 60°C
Peak Current	20A < 10ms	20A < 10ms
Max. Switching Voltage	250V AC/DC	250V AC/DC
Approx. weight	55g	55g

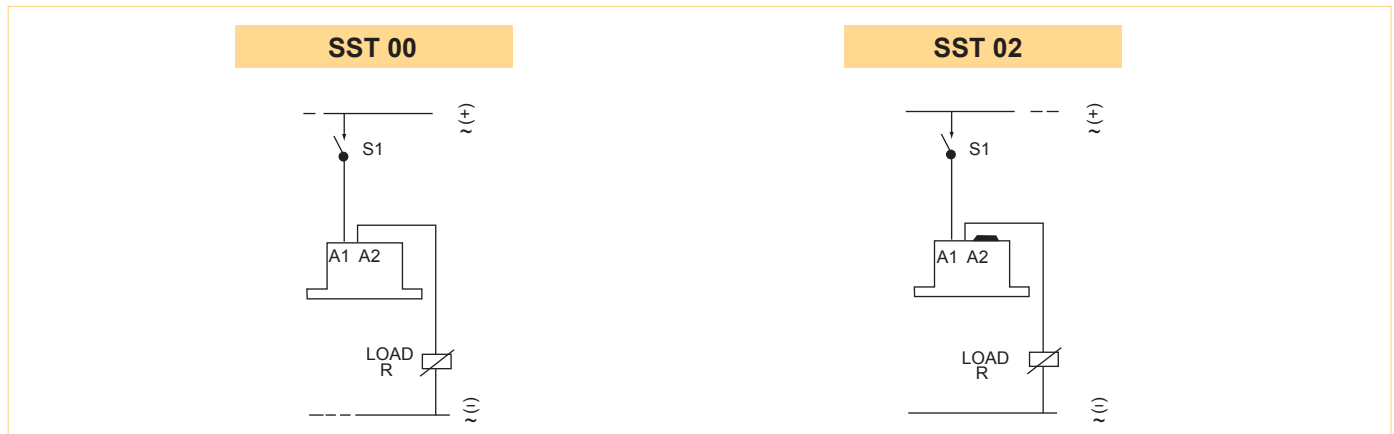
Connection Diagrams

Electronic Timers





Encapsulated Timers



Curves

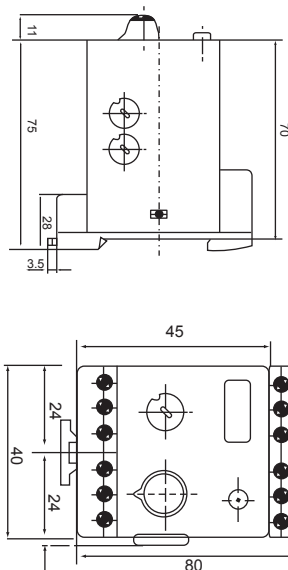
Function A	Function C	Function D & Di	Function B & Function H	Function Q	Encapsulated Timer for Compressor and heat Pump
Delay on make timing commences with the supply on (S1). At the end of timing, the load R is energized.	The timer is permanently supplied. At the closure of contact S2, the load is energised until the set time has elapsed, after the opening of S2. If S2 is reclosed during timing, the output will remain energised. Command contact S2 should be isolated from any other circuit. Power supply S1 has to be closed when operating S2	The timer is permanently supplied. The load is alternatively de-energised and energised repeatedly to the set time. Function D : Pause start cycle (Standard Supply) Function Di : Pulse start cycle	Function B : Single Shot The timer is permanently supplied. At the closure of the command contact S2 (either fleeting or maintained contact), the load R is energized. The load de-energized at the end of timing. Function H : Interval Timer At the closure of S1(Supply ON), the load is energised and timing starts. At the end of timing, the load de-energised	The star relay energizes when supply is applied to the timer and timing begins. After the timing, the star relay deenergises. After a pause of about 100ms, the delta relay energizes and will be maintained.	When a compressor is stopped by the Thermostat, it should not restart immediately on full load. A timer of 3 to 5 minutes is needed to equalise the Interior pressure in the system, or to avoid a sudden drop in the latter. In other words, the timer is needed to prevent reset of the thermostat and to ensure optimal operation of the equipment. For this application, BIL has developed a special low-cost timer with only 2 terminals, the SAS-CB (load in series with timer) Note : At the first supply "ON" the compressor starts instantaneously without loss of time

Function A	Function C	Function D	Function B	Function Q	Encapsulated Timer for Compressor and heat Pump
		Function Di	Function H		

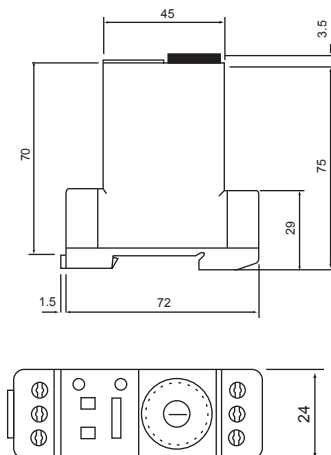


Dimensions (mm)

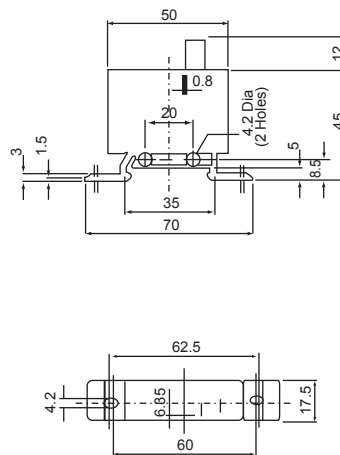
DIN RAIL MOUNTING
Star Delta Timers DQR



DIN RAIL MOUNTING OR BASE-MOUNTING
BAR/BCR/BDR/BLR Timers



ENCAPSULATED TIMERS



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Guwahati - 781 0007
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Station Road,
Hospet-583201
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Jaipur - 302 001
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16-B/1, Dr. Ambedkar Road,
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Raipur

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Venu Vaibhavam, 2nd Floor,
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Vishakapatnam

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Kanpur	98392-34539
Muzaffarnagar	98970-73741
Renukoot	98399-55117
Ambala	93541-18839
Durgapur	97320-03364

Kolhapur	98906-26205
Nashik	98900-12944
Salem	98433-19533
Udaipur	98292-44085
Bhopal	98266-66093
Ghaziabad	98107-44937
Jabalpur	98268-03656

Kota	98290-14899
Nav Mumbai	98923-00701
Silchar	94354-04033
Vijayawada	98662-20504
Baddi	93187-78975
Gorakhpur	98392-24988
Jalandhar	98763-47188

Mangalore	98457-31944
Pondichery	98942-22033
Siliguri	98320-11433
Bhilai	98266-12907
Gwalior	98268-03658
Jodhpur	98292-18618
Rajkot	98256-04709

Tirupathi	98661-30930
Warangal	98495-51691

Since product improvement is a continuous process, the data furnished in this brochure may undergo revision without prior notice.