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## **General Specifications**

4

Temperature Rating — -70°C TO + 125°C

Altitude — 300.000 Feet

#### Shock\* —

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Z. Y. & X Enclosures — 200 g for 6 mS W & M Enclosures (Stud Mtg.) — 100 g for 6 mS T Enclosure (Socket Mounted in Track) -50 g for 11 mS

#### Vibration, Sinusoidal\* —

Z. Y. & X Enclosures —

0.12 DA 10 to 70 Hz, 30 g 70-3000Hz W & M Enclosures (Stud Mtg.) — 0.12 DA 10 to 57 Hz, 20 g 57-3000Hz T Enclosure (Socket Mounted in Track) — 0.06 DA 10 to 57 Hz, 10 g 57 to 500Hz, 20 g 500 to 3000 Hz

Vibration, Random\* — Z. Y. & X Enclosures — 0.4 g<sup>2</sup>/Hz 50-2000Hz T, W & M Enclosures — 0.2 g<sup>2</sup>/Hz 50-2000Hz

## Dielectric Strength —

At Sea Level — All circuits to ground and circuit to circuit — 1000 V rms Coil to ground — 1000 V rms At 80,000 Feet — 250 V rms

#### Insulation Resistance —

Initial (500 VDC) — 100 M $\Omega$  Min. After Life or Environmental Tests — 50 M $\Omega$  Min.

**Operate Time at Nominal** Voltage — 4 ms or less

**Release Time at Nominal Voltage** — 4 ms or less

\* Max. contact opening under vibration or shock 10 microseconds

Coil Data						
	Nominal	Биол	DC Res.	Ove	er Temperature Ra	inge
Coil Code	Voltages	Freq. Hz	(B)	Pickup or Below Volts	Dropout or Above Volts	Must Hold Voltage (C)
1	6	DC	20 Ω	4.5	0.3	2.5
2	12	DC	95 Ω	9.0	0.75	4.5
3	28	DC	500 Ω	18.0	1.5	7.0
4 (A)	28	DC	500 Ω	18.0	1.5	7.0
5	48	DC	1600 Ω	36.0	2.5	14.0

A. CODE 4 COILS HAVE BACK EMF SUPPF

3

B. DC COIL RESISTANCE ± 10% AT 25°C

C. RELAY WILL STAY IN PICKED-UP STATE

D. MAX. OVERVOLTAGE: 6 & 12 VDC COILS

### Contact Rating — Amperes **Ratings Are Continuous Duty**

Type of Load	Life (Min.) Cycles x 10 <sup>3</sup>	28 VDC	115VAC 400Hz	115/200VAC 400Hz, 3Ø
Resistive	100	5	5	5
Inductive	20	3	5	5
Motor	100	2	3	3
Lamp	100	1	1	1

\*60 Hz loads rated for 10,000 operations

Low Level Switching Capability: With contact microamperes at 10 to 50 millivolts, the conta level shall be 100 ohms max. Cycling rate is operations.

**Overload Current** — 20 AMPS DC, 30 AMPS Rupture Current — 25 AMPS DC, 40 AMPS 40 Contact Make Bounce — 1.0 MILLISECOND A Max. Contact Drop at 5 Amps — INITIAL 0.1 End of Life — 0.125 VOLTS



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				REVISIONS	
		P LTR		DESCRIPTION DATE	DWN APVD
		A	INITIAL RELEASE	27SEP2019	RV BM
				Product Facts	
	0	or Tomporatura Da		<ul> <li>Hermetically Sealed</li> </ul>	
DC Res.	Pickup or	/er Temperature Ra Dropout or	Must Hold	•	
(B)	Below Volts	Above Volts	Voltage (C)	All Welded Construction	
20 Ω	4.5	0.3	2.5	Balanced Force	
95 Ω	9.0	0.75	4.5	Permanent Magnet Drive	
500 Ω	18.0	1.5	7.0	·	
500 Ω	18.0	1.5	7.0	<ul> <li>Contacts rated low level to 5 Amps VDC and 115/200</li> </ul>	ł
1600 Ω	36.0	2.5	14.0	- VAC 400 Hz, 3 Phase	
RESSION TO 42 V	/OLTS MAX.				
DOWN TO MUS				Weight .54 ounces max. (15.4 groups)	
		ES SHOWN. IS 110% OF NOMIN	AL.	( <b>1</b> 5.4 grams)	
				Qualified to M83536/1, /2	
		The Series FC	B-205 relay	increased contact pressure	1
		is a polarized	single-side	in both states over that of	
C 115VAC 400Hz	115/200VAC 400Hz, 3Ø	stable design,		a spring return nonpolar	
5	5	flux from a per		design. We also	c
5	5	magnet provid		manufacture other forms of	ſ
3	3	armature hold the deactivate	•	the FCB relay:	
1	1	its flux path is		FCB-405 — 5 Amp 4PDT	
		and combined		Relay	
		flux in the ope			
ts operating a load		This results in			
act resistance mis 1 to 12 per secon		HOW TO ORDER			4
- to 12 per eccen		new re enden		FCB-205-A Y	4
1004-		RELAY TYPE -			
400Hz					
DOHz		TERMINALS (So	ocket Pins)		
AT NOMINAL VOLTA	AGE				
00 VOLTS		ENCLOSURE (\	With Flanges) —		
			lith Transiant Sur	aproceion)	
[					
THIS DRAWING IS A	CONTROLLED DOCUM		27SEP2019	<b>TE</b> TE Connectivity	
DIMENSIONS:	TOLERANCES UNLES	ss RV	27SEP2019 NAME		
INCHES		BM PRODUCT SPEC		FCB-205 SERIES	
<b>_</b>	$ 1 PLC \pm - 1 PLC \pm - 2 PLC \pm - 1 PLC \pm - 1 PLC \pm - 1 PLC \pm - 1 PLC + - 1 P$			—	
	$3 PLC \pm -$ 4 PLC $\pm -$	APPLICATION SPEC	SIZE CAGE	CODE DRAWING NO	RESTRICTED TO
MATERIAL	ANGLES ±-			- C=FCB-205-SERIES	
_	_				REV
		CUSTOMER DRA	AWING	NTS STALE NTS 1 OF 2	A

HOW	<b>T0</b>	ORD	)ER
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					REV	ISIONS	5								
		P LTR			DES	CRIPTION					DATE	DWN	A	APVD	
		A	INITIAL F	RELEASE						27S	EP2019	RV	E	3M	
						Prod	uct I	Facts	S						D
Te	empera	ature Ra	ange		I	He	rmet	icall	y Se	aled					
	Dropo Above			t Hold ige (C)	I		Wel	ded	Cons	struc	tion				
	0.3	3		2.5	I	Ba	lance	ed Fo	orce						
	0.7	<b>'</b> 5	4	1.5	I	Pe	rmar	nent	Mao	net [	)rive				
	1.			7.0					•		evel t	•			
	1.			7.0	1						5/200				
	2.	5	1	4.0			-	0 Hz,							
11 This st flu ar thits ar flu	ne Sei a pol able d ux fror agnet matur e dea s flux nd coi ux in t	ries FC arized design m a per t provid re hold activate path is mbined he ope	IAL. B-205 ingle- single- where rmaner des the ing force ad state switche d with the rated s apprec	side the at ce in , and ed ne coil tate.			5.4 g alifie asec th st ing r gn. \ ufact CB r -405	d cor ates retur We a ture o relay	s) M8: ove ove n nc also othe	<b>3536</b> t pre or that onpo r for	<b>/1, /2</b> essure at of lar ms c	e			C
RE TE		<b>YPE</b> – ALS (So	ocket Pir With Fla					CB	-20	)5-A		4			В
CC	<b>DIL</b> (28	B VDC W	/ith Tran	sient S	uppre	ssion	)								
Τ.	dwn RV		27SEP2019		4	E7	F	TF	Coni	nectiv	ritv.				
	CHK RV APVD		27SEP2019 27SEP2019	NAME											
	BM	SPEC	273672019				FCB-	-205	SERIE	ES					
								_							А
	APPLICAT	ION SPEC		SIZE CA	GE CODE	DRAWING	G NO					RESTR	RICTEI	d to	
	WEIGHT				_	C-	FCR-	-205	5–51	ERIF	S				
	CUSTO	) MER DR/	AWING			S			0	SHEET		↓ F	REV		
			UTIIN					IN	TS [`		1 OF	<u> </u>	/	A	

1470-19 (1/15)

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			-

Below are shown the standard terminal types and the enclosures available. Specify the assembly as indicated under How To Order. Dimensions are shown in inches  $\pm$  .010 and (Millimeters  $\pm$  .25).

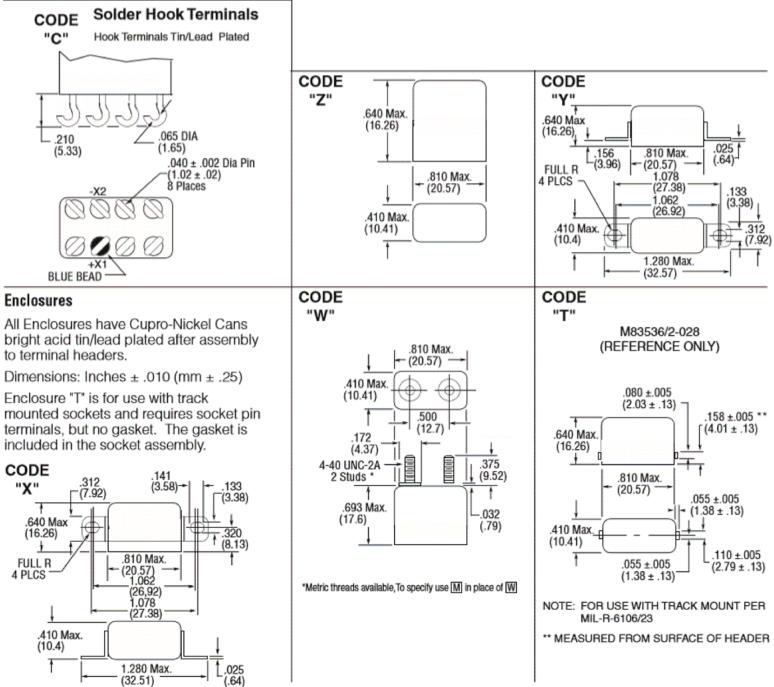
#### Terminals

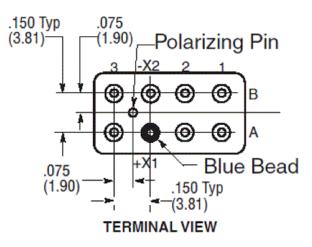
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SEE SHEET 1

.055 ±.005 (2.79 ± .13)	Relay is p		erved with DC coil supply. nanent magnet and will not verse polarity.	В
(1.38 ± .13) USE WITH TRACK MOUNT PER R-6106/23	Diodes us circuits ha minimum.	ave peak inverse volt	tage rating of 600 VDC a minimum rating of 1 watt.	
	Terminal of	designations are for r n the header.	reference only and do not	
			ALL DIMENSIONS ARE IN INCHES(MM)	
THIS DRAWING IS A CO	DNTROLLED DOCUMENT.	DWN 27SEP2019 RV CHK 27SEP2019	TE Connectivity	
	TOLERANCES UNLESS OTHERWISE SPECIFIED: 0 PLC ± – 1 PLC ± – 2 PLC ± – 3 PLC ± –	RV APVD 27SEP2019 BM PRODUCT SPEC — APPLICATION SPEC	FCB-205 SERIES	А
MATERIAL	4 PLC ± – ANGLES ± – FINISH	WEIGHT	A 3 - CHARLEN AGE CODE DRAWING NO RESTRICTED TO	
_	_	CUSTOMER DRAWING	SCALE NTS SHEET 2 OF 2 REV A	

DATE	DWN	APVD
_	—	_
	DATE —	DATE DWN

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