\square

D

A INITIAL RELEASE DWN APV

REVISIONS

COPPRICHT - TE Connectivity Ltd

Electrical Characteristics
Contact Ratings —

DC resistive — 2 amps at 28 volts
DC inductive — 0.5 amps at 28 volts,
200 mH

AC resistive — 1 amp at 115 volts (single coil), case not grounded AC resistive — 0.25 amps at 115 volts (dual coil), case not grounded Low-level — 50 µA at 50 mV Peak AC or DC

Contact Resistance — 0.050 ohms initial; 0.100 ohms after life test

Life — 100,000 operations at rated load; 1,000,000 at low-level

Operating Characteristics

Operate Time — 4 ms

Release Time — 4 ms

Contact Bounce — 2 ms **Dielectric Strength** —

1,000 volts rms at sea level; 700 volts rms across contact gap

Insulation Resistance — 1,000 megohm min.

Environmental Characteristics

Vibration — 30 G, to 3,000 Hz

Shock — 150 G at 11 ms Temperature — -65°C to +125°C

See page 1-52 for Mounting Forms, Terminals and Circuit Diagrams.

Magnetic Latching, Grid-space, Relays Type 3SAM (2PDT)

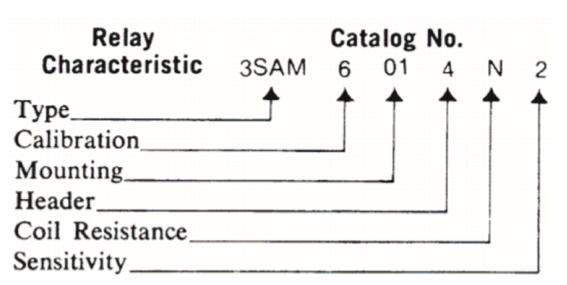
Product Facts

- Special shock designs up to 700 G, 1 ms
- Suitable for pulse operation
- No hang up feature on low power pulses
- Qualified to MIL-R-39016/32
- Special wiring is available

Ordering Instructions

Example: The relay selected in this example is a 2PDT magnetic latching relay, current calibrated, fourhole end bracket mounting, solder hook header, 1500 ohms coil resistance, and 75 mW sensitivity. By choosing the proper code for each of these relay characteristics, the catalog number is identified as 3SAM6014N2. The letter R following sensitivity code indicates relay received 5000 operation miss-test. Ex. 3SAM6014N2R.

This relay has "memory" in that the contact positions do not change when coil power is removed. Switching is accomplished by applying power to the applicable coil (dual coil) or with the applicable polarity (single coil). The low switching power requirements are further enhanced by its ability to operate from capacitor discharge or other pulses or through its own contacts for batteries or similarly limited supplies.



THIS DRAWING IS A CO	ONTROLLED DOCUMENT.	DWN	12NOV2019		_		_				
I IIIIS DIVAWING IS A CO	SMINOLLED DOCOMENT.	RV]		STE	TE Co	nnactiv	./i+\/		
		CHK	12NOV2019			5 <i> E</i>	1 12 00	illicctiv	vicy		
DIMENSIONS:	TOLERANCES UNLESS	RV									
DIMENSIONS.	OTHERWISE SPECIFIED:	APVD	12NOV2019	NAME							
INCHES		MB		_		-	3SAM-SERIE	-ς			
	O PLC ± -	PRODUCT SPEC					JOHN JENNE				
	1 PLC ± -						_				
	2 PLC ± -	_									
	3 PLC ± -	APPLICATION SPEC					_				
_	4 PLC ± -			SIZE	CAGE CODE	DRAWING NO				RESTR	RICTED TO
	ANGLES ±-	_		_							
MATERIAL	FINISH	WEIGHT		$I \wedge Z$		\bigcirc 35.	AM-SERII	-5			
			_	$ \land \cup $							
_	_	CUSTOMER D	DAWING				SCALE	SHEET	4	, R	EV .
		COSTOMER D	RAWING				J NIS		1 OF (5	А

S DRAWING IS UNPUBLISHED.

RELEASED FOR PUBLICATION , . – –

		REVISIONS			
Р	LTR	DESCRIPTION	DATE	DWN	APVD
	_	SEE SHEET 1	_	_	_

Coil Table (All Values DC) Dual Coil 75 mW Sensitivity: (Code: 2)

	Current Calibrated, CODE: 6						
Coil Code Letter	Coil Resistance @25C For Each Coil (Ohms)	Resistance Operate Sugar					
A	8.2 ± 10%	95.8	1.5-2.6				
B	20 ± 10%	61.2	2.3-4.1				
C	48 ± 10%	39.5	3.6-6.3				
D	82 ± 10%	30.2	4.7-8.3				
EFHK	130 ± 10%	24.0	6.0-10.0				
	200± 10%	19.4	7.4-13.0				
	300 ± 10%	15.8	9.0-16.0				
	480 ± 10%	12.5	12.0-20.0				
L	675 ± 10%	10.6	14.0-24.0				
M	975 ± 10%	8.8	16.0-29.0				
N	1500 ± 15%	7.1	21.0-35.0				
P	2400 ± 15%	5.6	27.0-44.0				
R	4100 ± 20%	4.3	37.0-55.0				

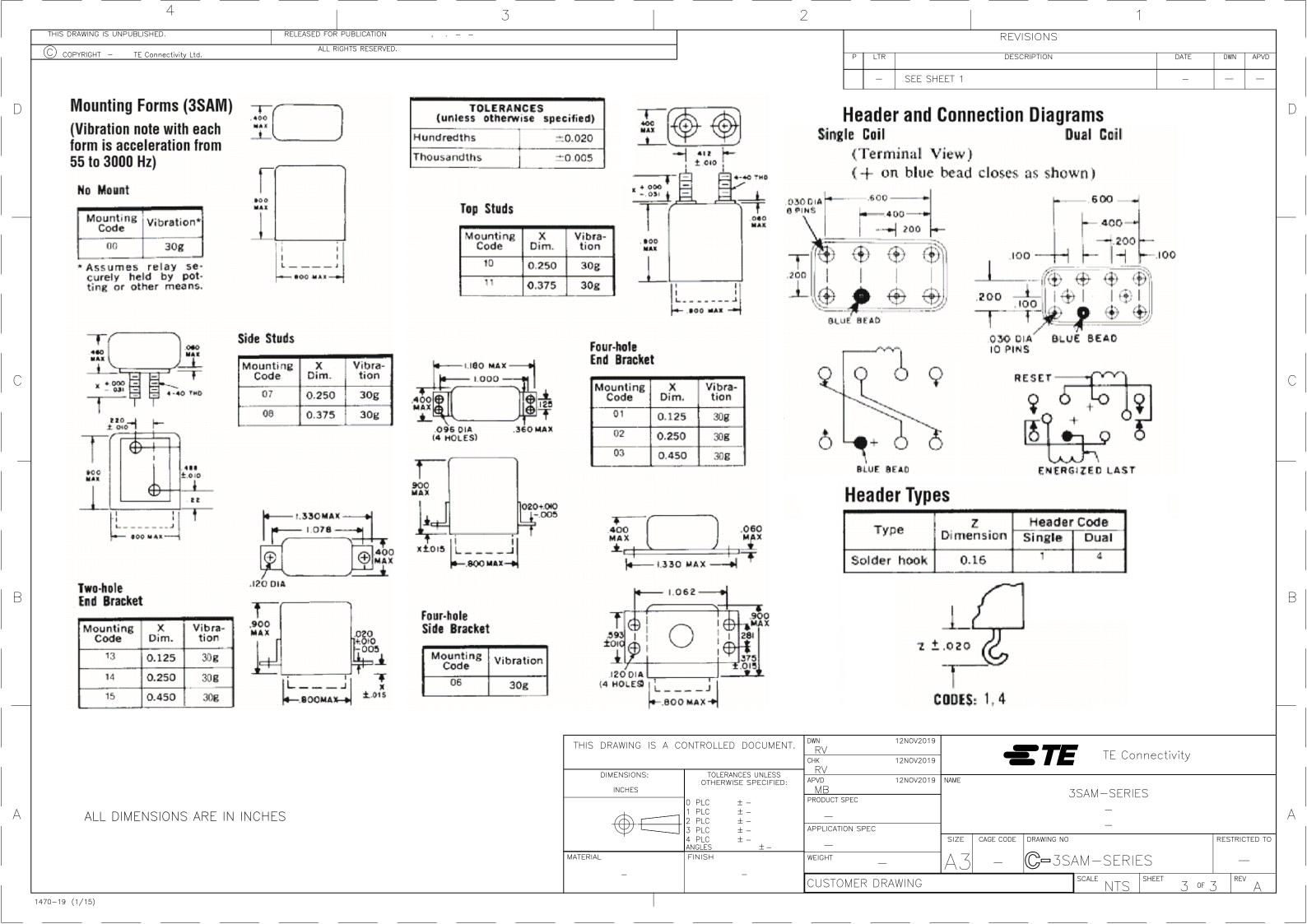
- † Applicable over the operating temperature range in circulating air.
- ‡ Initial or inspection value. Allow 20% increase in value of maximum pickup during rated life.

Coil Table (All Values DC) Single Coil 50 mW Sensitivity: (Code: 1)

	Current Calibrated, CODE: 6					
Coil Code Letter	Coil Resistance @25C (Ohms)	Max Operate and Reset Current (mA)	Suggested Source Voltage†			
A B C D	$16.4 \pm 10\%$ $40 \pm 10\%$ $96 \pm 10\%$ $164 \pm 10\%$	55.2 35.3 22.8 17.4	1.8-4.8 2.7-7.5 4.2-11.0 5.5-15.0			
E H K	$260 \pm 10\%$ $400 \pm 10\%$ $600 \pm 10\%$ $960 \pm 10\%$	13.9 11.2 9.2 7.2	7.0-19.0 8.5-23.0 11.0-29.0 13.0-37.0			
LMNPR	$1350 \pm 10\%$ $1950 \pm 10\%$ $3000 \pm 15\%$ $4800 \pm 15\%$ $8200 \pm 20\%$	6.1 5.1 4.1 3.3 2.5	16.0-43.0 19.0-52.0 25.0-64.0 32.0-81.0 43.0-99.0			

- † Applicable over the operating temperature range in circulating air.
- ‡ Initial or inspection value. Allow 20% increase in value of maximum pickup during rated life.

THIS DRAWING IS A C	ONTROLLED DOCUMENT.	CHK 12NOV20		4	TE Connectivity	у
DIMENSIONS: INCHES	TOLERANCES UNLESS OTHERWISE SPECIFIED:	APVD 12NOV20	19 NAME		3SAM-SERIES	
	0 PLC	PRODUCT SPEC — APPLICATION SPEC			USANI SENIES	
	4 PLC ± - ANGLES ± -	_	SIZE	CAGE CODE	DRAWING NO	RESTRICTED TO
MATERIAL	FINISH	WEIGHT	$\neg A3$		C-3SAM-SERIES	_
_	_	CUSTOMER DRAWING	•		SCALE NTS SHEET	OF 3 REV A



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

TE Connectivity:

3SAM1823A2