

Microswitches - continued

Miniature 'V3' Style - V Series - continued

15A @ 240V ac - continued

RoHS Order Code	990-1604	990-1612	990-1620	990-1639	990-1647
Order code	103-457	103-458	103-459	103-460	103-461
Operating force, max	200gf(1.96N)	125gf(1.23N)	70gf(0.69N)	125gf(1.23N)	240gf(2.35N)
Return force, min	0.49g	0.14g	0.06g	0.14g	0.49g
Pre travel, max	1.6mm	4mm	9mm	4mm	1.6mm
Overtravel, min	0.8mm	1.6mm	3.2mm	1.6mm	0.8mm
Movement differential, max	0.6mm	1.5mm	2.8mm	1.5mm	0.6mm
Actuator length	103-463 20.6mm				

222320

Switches	Mfrs. List No.	Order Code	1+	50+	100+
Broad plunger	V151C5	990-1604	94.00	92.00	86.00
Lever	V1521C5	990-1612	190.00	179.00	167.00
Long lever	V1531C5	990-1620	164.00	144.00	129.00
Roller lever	V1561C5	990-1639	176.00	156.00	139.00
Short roller lever	V1551C5	990-1647	130.00	124.00	119.00
Actuators					
Roller leaf spring	VAL2	103-463	106.00	94.00	83.00

Miniature 'V3' Style IP67 Sealed - Type 'V3S'

5A @ 250V ac/30V dc



Body H=24.2, W=10.5, D=31.7, Fixing centres=22.2 x 10.3

- Sealed to IP67
- Pre-wired with 500mm long PVC leads

Colour code : N.O.=Blue, N.C.=Grey, Common=Black

Mechanical life	10000000 ops	Operating temperature	-10°C to +70°C
Order Codes	116-2602	116-2604	116-2605
Operating force, max.	4N	1.7N	4N
Release force, min.	1.1N	0.43N	1.1N
Pre-travel, max.	1.9mm	4.2mm	2.34mm
Differential travel	0.4mm	1mm	0.4mm

213163

Switches	Mfrs. List No.	Order Code	1+	10+	100+	250+
Plunger	V3S UL	116-2602	856.00	787.00	757.00	740.00
Lever	V3SY1 UL	116-2604	1,012.00	--	--	--
Roller lever	V3SYR UL	116-2605	1,014.00	898.00	850.00	826.00

Miniature 'V3' Style - Failsafe - Positive Break BVM3 Series

10A @ 250V ac



- Positive action ensures that contacts are forced open, even in the event of welding
- SPNC contacts
- Re-inforced plastic casing and transparent polycarbonate cover
- Contact gap greater than 3mm at full travel
- CSA and VDE approved, UL recognised

Switch body: H=15.9, W=10.1, D=28.0 Fixing Centres=22.2

Mechanical life	1000000 ops	Operating temperature	-10°C to +85°C
Switch type		Button	Lever
Operating force at contact break		450g	450g
Operating force at total travel position		480g	480g
Total travel position		Flush with case	14.1mm
Free position max		15.8mm	16.8mm

213329

Switches	Mfrs. List No.	Order Code	1+	25+	50+	100+	+
Plunger	BVM3F	318-9673	299.00	278.00	267.00	175.00	--
Lever	BVM3FY-UL	318-9685	312.00	288.00	277.00	181.00	--
Roller	BVM3FYR	318-9697	384.00	359.00	339.00	224.00	--

General Purpose - Type 'Z'

15A @ 240V ac



118-1275 Short spring plunger, 118-1276 Spring plunger, 118-1277 Panel mounting plunger



118-1278 Panel mounting cross roller plunger, 118-1279 Panel mounting roller plunger in-line, 118-1280 Hinge lever



118-1281 Hinge roller lever, 118-1283 Short hinge roller lever, 118-1248 Wire hinge lever



1181285 Pin plunger, 103-894 Terminal enclosure
Switch body: H=24, W=17.5, D=49.2, Fixing centres=25.4

- Body fixing centres conform to international standards
- Wide range of integral actuators available

Contacts	SPDT	Electrical life	700000 ops
Mechanical life	10000000 ops	Operating temperature	-25°C to +80°C
Plunger Types			
Operating force	118-1275 250 to 350gf	118-1276 540gf max	118-1277 350gf
Release force, min	114gf	114gf	114gf
Pre-travel, max mm	0.4	2.4	0.4
Overtravel, min mm	1.6	3.5	5.5
Movement diff, mm	0.05 max	0.06 max	0.05 max
Lever Types			
Operating force, max	118-1280 70gf	118-1281 100gf	118-1283 160gf
Release force, min	70gf	42gf	42gf
Pre-travel, mm	6.8 to 10	3.9 to 7.1	2.7 max
Overtravel, min mm	5 to 6	4	2.4
Movement diff, mm	0.18 to 1.27	0.10 to 1.02	0.5 max
Actuator length, mm	63.5	48.5	26.6

Accessories

103-894 Phenolic resin terminal enclosure

213069

Plunger Switches	Mfrs. List No.	Order Code	1+	5+	10+
Short spring	Z-15GD-B7 SEV	118-1275	530.00	494.00	468.00
Spring	Z-15GK355-B7	118-1276	796.00	741.00	702.00
Panel Mounting	Z-15GQ-B7 SEV	118-1277	678.00	633.00	599.00
Panel mtg, cross roller	Z-15GQ21B	118-1278	754.00	704.00	681.00
Panel mtg, in-line roller	Z-15GQ22B	118-1279	817.00	762.00	721.00
Pin	Z-15G-B7 SEV+	118-1285	424.00	395.00	374.00
Lever Switches					
Hinge	Z-15GW-B7+	118-1280	471.00	439.00	415.00
Hinge roller	Z-15GW2B	118-1281	493.00	459.00	434.00
Short hinge roller	Z-15GW22B	118-1283	523.00	487.00	462.00
Wire	Z-15HW78-B7	118-1284	715.00	666.00	632.00
Terminal Enclosures					
Phenolic	APB.	103-894	62.00	58.00	55.00

Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.