CONTROL

Delivering Certainty

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VERSION 1.00

HAMER

CONTROL

CONTROL

Hamer is a 100% New Zealand family-owned business that has proudly supported other New Zealand businesses since 1938.

The philosophy at Hamer is simple: deliver the best quality electrical tools from around the world to the New Zealand market.

We import quality tools, power engineering and electrical products from around the world. Our products are found behind the scenes in power distribution networks, factories, commercial properties and anywhere humans control their environments – from water management in agriculture to air quality in the work space.

Hamer promises to 'Deliver Certainty' to the electrical industry, and we believe our quality products add an element of safety to every aspect of electrical activity in New Zealand. Whether it be the tools used in installation and maintenance or electrical components that energise and protect equipment, Hamer only distributes and supports quality products.

Delivering Certainty

Saginomiya was founded in 1940 and is a leading manufacturer of a wide range of high quality automatic controls for refrigeration, cooling, heating and air conditioning equipment. Saginomiya invest heavily in research and development, ensuring their products offer energy savings and state-of-the-art technology.

GEN3 is a range of quality industrial electrical products supplied by Uniquip Electrical Supplies, an Australian company founded in July 2005. Uniquip's aim is to supply a wide range of quality electrical products to the industry at competitive prices.

Flexelec are manufacturers of heating cable, heating cord, heating tape, heating mat and flexible heating elements. Founded in 1982, their range of products has proven to be suitable for many applications, eliminating problems such as freezing equipment and access points.

Comar Condensatori S.p.A. was established in 1968, and has since produced high quality electrical capacitors. Thanks to the continual replacement and upgrading of production equipment, the quality and reliability levels are always improving and at the top of the international standard.

Schurter is a leading innovator, manufacturer and distributor of fuses, connectors, circuit breakers, input systems and EMC products – and an important service provider for the PCB assembly and electronics industries.

Since 1965, Riko level switches and sensor products have earned the trust of customers around the world. Riko are committed to contributing to the growth of industry with their advanced material and applied technologies coupled with their innovative approach to fusing electronics.

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Single Function Pressure Control Switch – Automatic Operation with Adjustable Differential

- Type SNS & SYS automatic operation for universal applications.
- Reliable performance and long life products.
- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C). Copper alloy bellows (not designed for use with steam or corrosive fluids).
- With SPDT contact mechanism. Electrical rating 12A 125/250V AC.
- Mounting bracket is supplied as standard.
- Pressure connection 1/4" flare 7/16 -20 thread.
- SYS scale plate with significantly clear visibility.
- SYS compact and light-weight.

SG276

SG271

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	DIFFERENTIAL RANGE KPA (PSI)	CONTACT FUNCTION CLOSE ON
SG218	Saginomiya	SNS-C101X	-60 to 100KPa (-8.7 to 14.5 PSI)	15 to 50KPa (2.17 to 7.25 PSI)	Pressure decrease
SG220	Saginomiya	SNS-C102X	-20 to 200KPa (-2.9 to 29 PSI)	25 to 150KPa (3.62 to 21.75 PSI)	Pressure decrease
SG231	Saginomiya	SYS-C106X3A	-60 to 600KPa (-8.7 to 87 PSI)	60 to 400KPa (8.7 to 58.01 PSI)	Pressure decrease
SG271	Saginomiya	SYS-C110X3A	100 to 1000KPa (14.5 to 145 PSI)	100 to 300KPa (14.5 to 43.5 PSI)	Pressure decrease
SG276	Saginomiya	SNS-C120X	500 to 2000KPa (72.5 to 290 PSI)	200 to 500KPa (29 to 72.5 PSI)	Pressure decrease
SG281	Saginomiya	SYS-C130X3A	500 to 3000KPa (72.5 to 435.1 PSI)	300 to 1000KPa (43.5 to 145 PSI)	Pressure decrease
SG299	Saginomiya	SYS-C135X3A	1000 to 3500KPa (145 to 507.6 PSI)	500 to 1500KPa (72 to 217.5 PSI)	Pressure decrease

Single Function Pressure Control Switch - Automatic Operation with Manual Reset

- Type SNS & SYS automatic operation on pressure decrease, with manual reset for universal applications.
- Reliable performance and long life products.
- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C). Copper alloy bellows (not designed for use with steam or corrosive fluids).
- With SPDT contact mechanism. Electrical rating 12A 125/250V AC.
- Mounting bracket is supplied as standard.
- Pressure connection 1/4" flare 7/16 -20 thread.
- SYS scale plate with significantly clear visibility.
- SYS compact and light-weight.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	AUTO OPERATION WITH	CONTACT FUNCTION CLOSE ON
SG251	Saginomiya	SYS-C106X3MA2	-60 to 600KPa (-8.7 to 87 PSI)	Manual reset	Pressure decrease
SG290	Saginomiya	SNS-C130XM2	500 to 3000KPa (72.5 to 435 PSI)	Manual reset	Pressure decrease

SG251

SG290

Single Function Pressure Control Switch - Automatic Operation with Fixed Narrow Differential

- Type FNS auto reset operation with fixed narrow differential for universal applications.
- Reliable performance and long life products.
- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C).
- Copper alloy bellows (not designed for use with steam or corrosive fluids).
- With SPDT contact mechanism.
- Electrical rating 12A 125/250V AC.
- Mounting bracket is supplied as standard.
- Pressure connection 1/4" flare 7/16 -20 thread.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	DIFFERENTIAL FIXED NARROW KPA (PSI)	CONTACT FUNCTION CLOSE ON
SG320	Saginomiya	FNS-C101X	-60 to 100KPa (-8.7 to 14.5 PSI)	6KPa (0.87 PSI)	Pressure decrease
SG325	Saginomiya	FNS-C102X	-20 to 200KPa (-2.9 to 29 PSI)	8KPa (1.16 PSI)	Pressure decrease
SG340	Saginomiya	FNS-C110X	100 to 1000KPa (14.5 to 145 PSI)	25KPa (3.62 PSI)	Pressure decrease
SG350	Saginomiya	FNS-C130X	500 to 3000KPa (72.5 to 435.1 PSI)	120KPa (17.4 PSI)	Pressure decrease

SG340

Single Function Pressure Control Switch - Automatic Operation with Adjustable Differential - Special Variant

- Type SP61-SYS special variant pressure control switch with automatic operation for universal applications.
- Reliable performance and long life products.
- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C). Copper alloy bellows (not designed for use with steam or corrosive fluids).
- With SPDT contact mechanism. Electrical rating 12A 125/250V AC.
- Supplied without mounting bracket.
- Pressure connection 7/16-20UNF male with adaptor 1/4 BSPT tapered female thread.
- Scale plate with significantly clear visibility.
- Compact and light-weight

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	DIFFERENTIAL RANGE KPA (PSI)	CONTACT FUNCTION CLOSE ON
SG302	Saginomiya	SP61-A SYS-C106X3047	-60 to 600KPa (-8.7 to 87 PSI)	60 to 400KPa (8.7 to 58 PSI)	Pressure decrease
SG401	Saginomiya	SP61-B SYS-C110X3048	100 to 1000KPa (14.5 to 145 PSI)	100 to 300KPa (14.5 to 43.5 PSI)	Pressure decrease

SG401

Single Function Pressure Control Switch - Loss of Prime Shut Off

- Single pressure control with loss of prime override switch.
- The switch acts as momentary start contact for a latching pump start circuit, enabling the pressure switch to act as a low pressure cut out which prevents the pump from running dry.
- Reliable performance and long life products.
- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C). Copper alloy bellows (not designed for use with steam or corrosive fluids).
- With SPDT contact mechanism. Electrical rating 12A 125/250V AC.
- Supplied without mounting bracket.
- Pressure connection 1/4 BSPT tapered female thread.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	DIFFERENTIAL RANGE KPA (PSI)	CONTACT FUNCTION CLOSE ON
SG235	Saginomiya	SNS-106XLP	-60 to 540KPa (-8.7 to 78.32 PSI)	60 to 400KPa (8.7 to 58 PSI)	Pressure decrease

SG235

Single Function Pressure Control Switch - Automatic Operation with Adjustable Differential - Stainless Steel

- Type SNS with stainless steel bellows and automatic operation for universal applications.
- Reliable performance and long life products.
- Stainless steel bellows designed for use with fluorinated refrigerants as well as with air, water/ steam, brine and ammonia fluids (allowable fluid temp -20 to +120°C).
- With SPDT contact mechanism.
- Electrical rating 12A 125/250V AC.
- Supplied without mounting bracket
- Pressure connection stainless steel 1/4" - 18" NPT female thread.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	DIFFERENTIAL RANGE KPA (PSI)	CONTACT FUNCTION CLOSE ON
SG260	Saginomiya	SNS-C106XN	-60 to 400KPa (-8.7 to 58 PSI)	60 to 400KPa (8.7 to 58.01 PSI)	Pressure decrease
SG275	Saginomiya	SNS-C110XN	100 to 1000KPa (14.5 to 145 PSI)	100 to 300KPa (14.5 to 43.5 PSI)	Pressure decrease
SG282	Saginomiya	SNS-C130XN	500 to 3000KPa (72.5 to 435 PSI)	300 to 1000KPa (43.5 to 145 PSI)	Pressure decrease

SG260

Single Function Pressure Control Switch - Manual Reset - Stainless Steel

- Type SNS with stainless steel bellows and manual reset operation for universal applications.
- Reliable performance, and long life products.
- Stainless steel bellows designed for use with fluorinated refrigerants as well as with air, water/ steam, brine and ammonia fluids (allowable fluid temp -20 to +120°C).
- With SPDT contact mechanism.
- Electrical rating 12A 125/250V AC.
- Supplied without mounting bracket
- Pressure connection stainless steel 1/4" - 18" NPT female thread.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	AUTO OPERATION WITH	CONTACT FUNCTION CLOSE ON
SG262	Saginomiya	SNS-C106XM2N	-60 to 600KPa (-8.7 to 87 PSI)	Manual reset	Pressure decrease
SG291	Saginomiya	SNS-C130XM2N	500 to 3000KPa (72.5 to 435.1 PSI)	Manual reset	Pressure decrease

SG262

Dual Pressure Control Switch - DNS & DYS

- Type DNS & DYS are dual pressure controls that are integrated with over-pressure protection of the high pressure side and control of low pressure side of the refrigeration unit.
- Reliable performance and long life products.
- Copper alloy bellows designed for use with fluorinated refrigerants as well as with air or water (allowable fluid temp -20 to +120°C).
- SPDT or DPDT contact mechanism options.
- Electrical rating 12A 125/250V AC.
- Supplied with mounting bracket as standard.
- Pressure connections - flare nut 1/4", 7/16-20 UNF thread.

HAMER CODE	BRAND	CAT #	HIGH SIDE PRESSURE RANGE KPA (PSI)	HIGH SIDE DIFFERENTIAL RANGE KPA (PSI)	LOW SIDE PRESSURE RANGE KPA (PSI)	LOW SIDE DIFFERENTIAL RANGE KPA (PSI)	CONTACT FUNCTION
SG101	Saginomiya	DYS-D306X3A	800 to 3000KPa (116 to 435.1 PSI)	Fixed approx. 500KPa (72 PSI)	-60 to 600KPa (-8.7 to 87 PSI)	60 to 400KPa (8.7 to 58 PSI)	
SG140	Saginomiya	DNS-D606X	800 to 3000KPa (116 to 435.1 PSI)	Fixed approx. 500KPa (72 PSI)	-60 to 600KPa (-8.7 to 87 PSI)	60 to 400KPa (8.7 to 58 PSI)	Independent on high & low
SG110	Saginomiya	DNS-D306XM	800 to 3000KPa (116 to 435.1 PSI)	Manual reset trips on pressure rise	-60 to 600KPa (-8.7 to 87 PSI)	60 to 400KPa (8.7 to 58 PSI)	
SG146	Saginomiya	DYS-D606X3MA	800 to 3000KPa (116 to 435.1 PSI)	Manual reset trips on pressure rise	-60 to 600KPa (-8.7 to 87 PSI)	60 to 400KPa (8.7 to 58 PSI)	Independent on high & low

SG101

SG146

Differential Pressure Control Switch - WNS Automatic Operation with Adjustable Differential

- Type WNS automatic operation for use in any application where the relationship between two pressures is critical to proper equipment operation.
- Reliable performance and long life products.
- For use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C). Copper alloy bellows not designed for use with steam or corrosive fluids.
- SG295 with stainless steel bellows for use with steam, brine and ammonia applications.
- SPDT contact mechanism.
- Electrical rating 12A 125/250V AC.
- Supplied with mounting bracket with copper alloy versions only.
- Pressure connections: copper alloy - flare nut 1/4", 7/16-20 UNF / stainless steel - 1/4" BSPT female thread. & connectors.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	DIFFERENTIAL RANGE KPA (PSI)	CONTACT FUNCTION CLOSE ON
SG293	Saginomiya	WNS-C102X	30 to 200KPa (4.35 to 29 PSI)	30 to 150KPa (4.35 to 21.75 PSI)	Pressure increase
SG292	Saginomiya	WNS-C106X	50 to 350KPa (7.25 to 50.76 PSI)	50 to 250KPa (7.25 to 36.25 PSI)	Pressure increase
SG295	Saginomiya	WNS-C106XN	50 to 350KPa (7.25 to 50.76 PSI)	50 to 250KPa (7.25 to 36.25 PSI)	Pressure increase

SG293

SG295

High Pressure Safety Cut Out Pressure Switches

- HNS type single high pressure control with fixed differential and high pressure safety cut out.
- Automatic or manual reset versions with copper alloy or stainless steel bellows options.
- Reliable performance and long life products.
- Copper alloy bellows versions suitable for use with fluorinated refrigerants as well as with air and water (allowable fluid temp -20 to +120°C). Copper alloy bellows not designed for use with steam or corrosive fluids - refer to stainless steel bellows versions. Stainless steel bellows versions suitable for use with fluorinated refrigerants as well as with air, water/ steam, brine and ammonia fluids (allowable fluid temp -20 to +120°C).
- With SPDT contact mechanism. Electrical rating 12A 125/250V AC.
- Mounting bracket supplied as standard with copper alloy bellows versions only.
- Copper alloy bellows versions pressure connection 1/4" flare 7/16 -20 thread.
- Stainless steel bellows versions pressure connection female 1/4" BSPT thread.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE KPA (PSI)	FIXED DIFFERENTIAL KPA (PSI)	FACTORY SETTING KPA	BELLOWS / RESET TYPE	CONTACT FUNCTION CLOSE ON
SG200	Saginomiya	HNS-C130X	800 to 3000KPa (116 to 435.1 PSI)	300 to 500KPa (43 to 72 PSI)	2000 Off 1600 On	Copper alloy/ auto	Pressure increase
SG210	Saginomiya	HNS-C130XM1	800 to 3000KPa (116 to 435.1 PSI)		2000 Off	Copper alloy/ manual	Pressure increase
SG215	Saginomiya	HNS-C130XN	800 to 3000KPa (116 to 435.1 PSI)	300 to 500KPa (43 to 72 PSI)	2000 Off 1600 On	Stainless/ auto	Pressure increase
SG212	Saginomiya	HNS-C130XM1N	800 to 3000KPa (116 to 435.1 PSI)		2000 Off	Stainless/ manual	Pressure increase

SG200

SG210

SG215

SG212

Single Function Pressure Control Switch - Fixed Differential Capillary Style

- Type LTB factory set low pressure switch designed for use in pools, spas and refrigeration, water chiller etc.
- Reliable performance, and long life products.
- For use with fluorinated refrigerants and water.
- Automatic operation with SPDT contact mechanism.
- Capillary tube with 1/4" flare nut pressure connection.
- Electrical rating 16A 125/250V AC.

HAMER CODE	BRAND	CAT #	PRESSURE RANGE PSI	FITTINGS	CAPILLARY LENGTH
SG585	Saginomiya	LTB-X321	Fixed setting: ON - 5 PSI, OFF 2 PSI	1/4" flare nut	400mm
SG590	Saginomiya	LTB-X330	Fixed setting: ON - 5 PSI, OFF 2 PSI	1/4" flare nut	1000m

SG585

Flow Control Switch

- Saginomiya FQS-U30G for use on liquid lines such as water, ethylene glycol, or any non-corrosive fluid in chillers, pumps, condensers, boilers etc.
- 1" NPT (25,4mm) connection. IP20.
- SPDT contact mechanism 250V AC 15A.
- 3" segmented paddle for various sized pipes.
- BQS replacement paddle set for use with FQS-U30G Flow Switch.

HAMER CODE	BRAND	CAT #	PADDLE SIZE	MAX PRESSURE	FLUID TEMP	MAX FLOW
SG900	Saginomiya	FQS-U30G	3" (76.2mm)	0.98 MPa/142.14 PSI	+5°C to +80°C	2m/s
SG905	Saginomiya	BQS-QS-00823	1, 2 & 3" paddle set			

SG900

Liquid Level Float Control Switch

- For reliable high, low, or intermediate liquid level detection in almost any tank.
- Horizontal mounted, nylon-6 model MFS9-N2-2 or stainless steel (SUS304) model RFS-12-2, liquid level float switches.
- Top mounted, polypropylene foamed liquid level float switch model MFS25-J
- Max current 0,5A; Max voltage 300V AC/DC; Max contact capacity 50W AC/DC.

HAMER CODE	BRAND	CAT #	MOUNT / MATERIAL	SPECIFIC GRAVITY OF LIQUID	DIMENSIONS (L X Ø)	OPERATING TEMP:	FEATURES
SG892	Riko	MFS25-J	Vertical Mt, nylon	>0.75	31mm x 24mm Ø	-10°C to +80°C	M8x1.25 thread
SG894	Riko	RFS-12-2	Horizontal Mt, SUS304	>0.8	94mm x 17mm Ø	-40°C to +120°C	1/2"NPT tapered thread, 20G shock resistance
SG887	Riko	MFS9-N2-2	Horizontal Mt, nylon	>0.8	73mm x 15mm Ø	-10°C to +110°C	1/4" PF thread

SG892

SG894

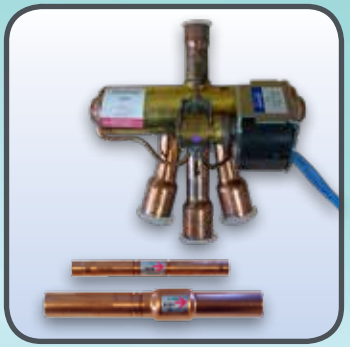
SG887

SAGInoMIYA

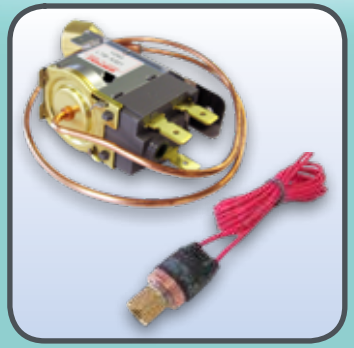
When only the best components will do!

Pressure Controllers
air, water, steam/brine

Fan Speed Controllers



Reversing & Check Valves



OEM Pressure Controls

Temperature Controls

Tokyo, Japan

Pressure Control Switch - Disc Pressure Switches

- Pressure control CB series are disc type small pressure controls featuring compact structure and field-proven high quality.
- LCB series for low pressure range applications.
- ACB series for high & medium pressure range applications.
- SPST contact action on pressure rising.
- Waterproof terminal construction.
- Maximum allowable ambient temperature -30 to 85°C (but no freeze).
- Hex 14 female flare 7/16-20UNF connection + schrader depressor.
- Moulded 1mt wire leads.
- 125 to 250V AC, 16A inductive starting / 4A non-inductive max.
- 12V DC 4A non-inductive max.

HAMER CODE	BRAND	CAT #	PRESSURE OFF (PSI)	PRESSURE ON (PSI)
SG1053	Saginomiya	ACB-PA53	170±14	250±14
SG1055	Saginomiya	ACB-PA55	200±20	259±10
SG2052	Saginomiya	ACB-PB52	385±14	310±14
SG2111	Saginomiya	ACB-PB111	400±14	300±21
SG2112	Saginomiya	ACB-PB112M	400±28	<300 Manual reset
SG2113	Saginomiya	ACB-PB113	350±10	250±20
SG3048	Saginomiya	LCB-PA48	6±5	21±7
SG3095	Saginomiya	LCB-PA95	10±5	25±5
SG3096	Saginomiya	LCB-PA96	35±7	60±7

SG2111

SG2112

SG3095

Pressure Control Switch - Accessories

- Various accessories for Saginomiya pressure switch controls.

HAMER CODE	BRAND	CAT #	DESCRIPTION	FEATURES	DIMENSIONS
SG310	Saginomiya	103011-01	Brass adaptor connector 1/4" SAE flare	Converts to 1/4" BSP female/female	30mm L
SG202	Saginomiya	SNS-AE01	Mounting bracket for pressure switches	Fits all Saginomiya 'NS' & 'YS' models	82 x 60 x 27mm LxWxD
SG298	Saginomiya	SNS-AD01	Capillary tube for pressure switch	1/4" SAE (7/16-20 UNF) flare	1mt L
SG300	Saginomiya	SNS-AD02	Capillary tube for pressure switch	1/4" SAE (7/16-20 UNF) flare	2mt L

SG310

SG202

SG298

Condenser Fan Speed Controllers - RGE

- Saginomiya fan speed controllers for controlling the speed of a condenser fan of freezing and refrigeration condensing units, package air conditioners and other units which are operated throughout a year.
- Keep condensing pressure constant in winter and intermediate seasons for stable operation.
- One of the following operation models is selectable when low speed - Minimum Speed Operation - Cut off Operation.
- Excellent noise-resisting design.
- Applicable to the external forced operation switch. Control method - phase control.
- Enclosure IP54.

HAMER CODE	BRAND	CAT #	F.V.S SETTING MPA	E.P.B SETTING MPA	REFRIGERANTS	RATINGS	AMPS
SG354	Saginomiya	RGE-Z1N4-5	0.8 to 2.8 MPa	Fixed 0.4 MPa	R22, R404A, R407C	Single phase 200 to 240V AC	0.2 to 4A
SG359	Saginomiya	RGE-Z1N6-5	1.6 to 3.9 MPa	Fixed 0.8 MPa	R410A	Single phase 200 to 240V AC	0.2 to 4A
SG358	Saginomiya	RGE-Z1Q4-7	0.8 to 2.8 MPa	Fixed 0.4 MPa	R22, R404A, R407C	Single phase 200 to 240V AC	0.2 to 8A
SG356	Saginomiya	RGE-X3R4-7	0.8 to 2.8 MPa	Fixed 0.4 MPa	R22, R404A, R407C	Three phase 380 to 415V AC	0.5 to 5A

SG354

SG356

Check Valves

- Saginomiya BCV check valves - solder type.
- Prevents the counter flow at change-over of cycles from heating to cooling and vice versa when installed in the liquid line of heat pump air conditioners.
- Also for prevention of reverse flow of high pressure gas when compressor stops.
- For use with fluorinated refrigerants, R22, R134a, R404A, R407C, R410A, R507A.
- Can be mounted in horizontal or vertical line.
- Allowable liquid temp: -30°C to 120°C.
- Maximum working pressure 4.15MPa (602 PSI).

HAMER CODE	BRAND	CAT #	COPPER TUBE I.D.	PORT SIZE	LENGTH	CV VALUE
SG362	Saginomiya	BCV-302DY	1/4"	3mm	112mm	0.33
SG361	Saginomiya	BCV-603DY	3/8"	5.5mm	120mm	0.97
SG360	Saginomiya	BCV-804DY	1/2"	8mm	140mm	2
SG363	Saginomiya	BCV-1005DY	5/8"	10mm	160mm	3.5
SG364	Saginomiya	BCV-1306DY	3/4"	12.5mm	180mm	4.7

SG360

Reversing Valves - STF

- Pilot operated 4-way reversing valves are suitable for heat pump applications on unitary, split system and window type air conditioners, etc.
- 4-way pilot valve adoption has an advantage of reliable changeover operation.
- Unique device for short cycle prevention is provided.
- Designed for instantaneous reversing and operations under small minimum pressure differential between the high and low side.
- Pressure drop across the valve, and valve leakage are minimised.
- Provided with drip proof resin encapsulated solenoid coil.
- Coil voltage: 240V AC 50/60 Hz.

HAMER CODE	BRAND	CAT #	PORT SIZE	COMPRESSOR DISCHARGE	SUCTION AND COILS	R22, R407C CAPACITY	R410A CAPACITY
SG941	Saginomiya	STF-0201G	11.1mm	3/8" OD	1/2" OD	2,8 to 10 kW	3,2 to 11,4 kW
SG948	Saginomiya	STF-0214G	11.1mm	1/2" OD	5/8" OD	2,8 to 10 kW	3,2 to 11,4 kW
SG950	Saginomiya	STF-0408G	15.5mm	1/2" OD	3/4" OD	-	8,3 to 29,2 kW
SG961	Saginomiya	CHV-01AI501A1	240V replacement coil				

SG941

SG948

SG961

Industrial Extension Plugs

- GEN3 industrial extension plugs are quality made straight or angled design for general industrial applications.
- Hi-Viz orange casing with clear cover section for wiring visual inspection.
- Compression glands for quick secure cable termination.
- Wide collar ring for connection to industrial threaded connections. Laser etched markings for long life identification.
- Dual rubber moulded seals.
- IP66 rated and UV resistant. Compatible with other major industrial brands.

PL1PH10

PLSR320

HAMER CODE	BRAND	CAT #	PLUG STYLE	POLE	AMP	VOLTAGE AC	PINS	IP RATING
PL1PH10	GEN3	PL1PH10	Straight	1	10A	250V	3 flat	IP66
PL1PH15	GEN3	PL1PH15	Straight	1	15A	250V	3 flat	IP66
PLSR320	GEN3	PLSR320	Straight	1	20A	250V	3 round	IP66
PLSR332	GEN3	PLSR332	Straight	1	32A	250V	3 round	IP66
PLS3PH410	GEN3	PLS3PH410	Straight	4	10A	500V	4 round	IP66
PLS3PH420	GEN3	PLS3PH420	Straight	4	20A	500V	4 round	IP66
PLS3PH432	GEN3	PLS3PH432	Straight	4	32A	500V	4 round	IP66
PLS3PH440	GEN3	PLS3PH440	Straight	4	40A	500V	4 round	IP66
PLS3PH450	GEN3	PLS3PH450	Straight	4	50A	500V	4 round	IP66
PLS3PH520	GEN3	PLS3PH520	Straight	5	20A	500V	5 round	IP66
PLS3PH532	GEN3	PLS3PH532	Straight	5	32A	500V	5 round	IP66
PLS3PH540	GEN3	PLS3PH540	Straight	5	40A	500V	5 round	IP66
PLS3PH550	GEN3	PLS3PH550	Straight	5	50A	500V	5 round	IP66

PLA3PH432

HAMER CODE	BRAND	CAT #	PLUG STYLE	POLE	AMP	VOLTAGE AC	PINS	IP RATING
PLA3PH410	GEN3	PLA3PH410	Angled	3	10A	500V	4 round	IP66
PLA3PH420	GEN3	PLA3PH420	Angled	3	20A	500V	4 round	IP66
PLA3PH432	GEN3	PLA3PH432	Angled	3	32A	500V	4 round	IP66
PLA3PH440	GEN3	PLA3PH440	Angled	3	40A	500V	4 round	IP66
PLA3PH450	GEN3	PLA3PH450	Angled	3	50A	500V	4 round	IP66
PLA3PH520	GEN3	PLA3PH520	Angled	3	20A	500V	5 round	IP66
PLA3PH532	GEN3	PLA3PH532	Angled	3	32A	500V	5 round	IP66
PLA3PH540	GEN3	PLA3PH540	Angled	3	40A	500V	5 round	IP66
PLA3PH550	GEN3	PLA3PH550	Angled	3	50A	500V	5 round	IP66

Industrial Extension Sockets

- GEN3 industrial extension sockets are quality made for general industrial applications.
- Hi-Viz orange casing with clear cover section for wiring visual inspection.
- Compression glands for quick secure cable termination.
- Wide collar ring for connection to industrial threaded connections. Laser etched markings for long life identification.
- Dual rubber moulded seals.
- IP66 rated. Compatible with other main industrial brands.

SCO1PH10

SCO4P32

HAMER CODE	BRAND	CAT #	POLE	AMP	VOLTAGE AC	PINS	IP RATING
SCO1PH10	GEN3	SCO1PH10	1	10A	250V	3 flat	IP66
SCO1PH15	GEN3	SCO1PH15	1	15A	250V	3 flat	IP66
SCO1PH20	GEN3	SCO1PH20	1	20A	250V	3 flat	IP66
SCO4P10	GEN3	SCO4P10	3	10A	500V	4 round	IP66
SCO4P20	GEN3	SCO4P20	3	20A	500V	4 round	IP66
SCO4P32	GEN3	SCO4P32	3	32A	500V	4 round	IP66
SCO5P20	GEN3	SCO5P20	3	20A	500V	5 round	IP66
SCO5P32	GEN3	SCO5P32	3	32A	500V	5 round	IP66

Industrial Surface Socket Outlets

- GEN3 industrial surface socket outlets are quality made for general industrial applications.
- All plastics are PC18 virgin grade - no regrind.
- Clear snap-shut socket outlet cover with stainless steel spring.
- Laser etched markings for long life identification.
- Dual rubber moulded seals. Mounting template and E1 base supplied as standard.
- IP66 rated and UV resistant. Compatible with other major industrial brands.

SC310

SCR332

HAMER CODE	BRAND	CAT #	OUTLET TYPE	POLE	AMP	VOLTAGE AC	PINS	IP RATING
SCA310	GEN3	SCA310	Auto switching	1	10A	250V	3 flat	IP66
SCA315	GEN3	SCA315	Auto switching	1	15A	250V	3 flat	IP66
SC310	GEN3	SC310	Outlet	1	10A	250V	3 flat	IP66
SC315	GEN3	SC315	Outlet	1	15A	250V	3 flat	IP66
SC320F	GEN3	SC320F	Outlet	1	20A	250V	3 flat	IP66
SCR320	GEN3	SCR320	Outlet	1	20A	250V	3 round	IP66
SCR332	GEN3	SCR332	Outlet	1	32A	250V	3 round	IP66

SC532

HAMER CODE	BRAND	CAT #	OUTLET TYPE	POLE	AMP	VOLTAGE AC	PINS	IP RATING
SC410	GEN3	SC410	Outlet	3	10A	500V	4 round	IP66
SC420	GEN3	SC420	Outlet	3	20A	500V	4 round	IP66
SC432	GEN3	SC432	Outlet	3	32A	500V	4 round	IP66
SC520	GEN3	SC520	Outlet	3	20A	500V	5 round	IP66
SC532	GEN3	SC532	Outlet	3	32A	500V	5 round	IP66
SC540	GEN3	SC540	Outlet	3	40A	500V	5 round	IP66
SC550	GEN3	SC550	Outlet	3	50A	500V	5 round	IP66

Industrial Combination Switched Socket Outlets

- GEN3 industrial combination switched socket outlets are quality made for general industrial applications.
- All plastics are PC18 virgin grade - no regrind.
- Clear snap-shut socket outlet cover with stainless steel spring. Lockable rotary switch.
- Laser etched markings for long life identification.
- Dual rubber moulded seals. Mounting template and E2 base supplied as standard.
- IP66 rated and UV resistant. Compatible with other major industrial brands.

CO1PH10

CO3PH520

HAMER CODE	BRAND	CAT #	POLE	AMP	VOLTAGE AC	PINS	IP RATING
CO1PH10	GEN3	CO1PH10	1	10A	250V	3 flat	IP66
CO1PH15	GEN3	CO1PH15	1	15A	250V	3 flat	IP66
CO1PHR320	GEN3	CO1PHR320	1	20A	250V	3 round	IP66
CO1PHR332	GEN3	CO1PHR332	1	32A	250V	3 round	IP66
CO3PH420	GEN3	CO3PH420	3	20A	500V	4 round	IP66
CO3PH432	GEN3	CO3PH432	3	32A	500V	4 round	IP66
CO3PH450	GEN3	CO3PH450	3	50A	500V	4 round	IP66
CO3PH520	GEN3	CO3PH520	3	20A	500V	5 round	IP66
CO3PH532	GEN3	CO3PH532	3	32A	500V	5 round	IP66

Industrial Weather Proof Switched Socket Outlets

- GEN3 industrial weather proof switched socket outlets are quality made for general industrial applications.
- All plastics are PC18 virgin grade - no regrind.
- Available as single outlet or double outlet versions.
- Laser etched markings for long life identification.
- Base supplied as standard.
- IP53 rated and UV resistant. Compatible with other major industrial brands.

WPGP01

WPGP02

HAMER CODE	BRAND	CAT #	TYPE	POLE	AMP	VOLTAGE AC	PINS	IP RATING
WPGP01	GEN3	WPGP01	Single switched outlet	1	10A	250V	3 flat	IP53
WPGP02	GEN3	WPGP02	Double switched outlet	1	10A	250V	3 flat	IP53

Industrial Weather Proof Switches

- GEN3 industrial weather proof switches are quality made for general industrial applications.
- All plastics are PC18 virgin grade - no regrind.
- Available as single or double switch versions.
- Laser etched markings for long life identification.
- Base supplied as standard.
- IP66 rated and UV resistant. Compatible with other major industrial brands.

WSW1

HAMER CODE	BRAND	CAT #	TYPE	POLE	AMP	VOLTAGE AC	IP RATING
WSW1	GEN3	WSW1	Single switch	1	15A	250V	IP66
WSW2	GEN3	WSW2	Double switch	1	15A	250V	IP66

Enclosures - Modular Bases & Lids

- Industrial modular enclosure bases and lids.
- IP66.
- UV resistant.
- PCA18 100% virgin plastics – no regrind.
- Laser engraved label for longer life identification.
- See chemical resistance comparison chart for area compatibility.

G1E

G2E

G3E

G4E

G6E

G8E

E1

E2

HAMER CODE	BRAND	CAT #	STYLE	CONFIGURATION
G1E	GEN3	G1E	1 Module enclosure base	1 x 1
G2E	GEN3	G2E	2 Module enclosure base	2 x 1
G3E	GEN3	G3E	3 Module enclosure base	3 x 1
G4E	GEN3	G4E	4 Module enclosure base	2 x 2
G6E	GEN3	G6E	6 Module enclosure base	3 x 2
G8E	GEN3	G8E	8 Module enclosure base	4 x 2
E1	GEN3	E1	1 Module enclosure lid	1 x 1
E2	GEN3	E2	2 Module enclosure lid	2 x 1

GEN3

INDUSTRIAL SWITCHGEAR

High quality products at competitive pricing.

Enclosures - Circuit Breaker Enclosures

- Industrial circuit breaker enclosures.
- Surface mounted enclosure for DIN rail circuit breakers and devices.

HAMER CODE	BRAND	CAT #	STYLE	DIMENSIONS (HxWxD) MM
PZ1P	GEN3	PZ1P	1 Pole circuit breaker enclosure	130 x 32 x 60
PZ2P	GEN3	PZ2P	2 Pole circuit breaker enclosure	130 x 51 x 60
PZ4P	GEN3	PZ4P	3-4 Pole circuit breaker enclosure	130 x 85 x 60
PZ6P	GEN3	PZ6P	4-6 Pole circuit breaker enclosure	168 x 124 x 65

PZ1P

PZ2P

PZ4P

PZ6P

Enclosures - Distribution Boards

- Distribution board enclosures for internal installations.
- Surface mounted or flush (recessed) mounted options.
- For DIN rail circuit breakers and devices.
- Transparent windows.

HAMER CODE	BRAND	CAT #	DIN RAIL DEVICES	MOUNTING TYPE	NUMBER OF WINDOWS	DIMENSIONS (HxWxD) mm
DB6	GEN3	DB6	6 module	Surface	1	200 x 150 x 75
DB8	GEN3	DB8	8 module	Surface	1	200 x 185 x 75
DB12	GEN3	DB12	12 module	Surface	1	200 x 255 x 75
DB12R	GEN3	DB12R	12 module	Flush	1	245H x 305W
DB18	GEN3	DB18	18 module	Surface	1	220 x 360 x 75
DB18R	GEN3	DB18R	18 module	Flush	1	265H x 415W
DB24	GEN3	DB24	24 module	Surface	2	325 x 270 x 75
DB24R	GEN3	DB24R	24 module	Flush	2	360H x 305W
DB36	GEN3	DB36	36 module	Surface	3	475 x 305 x 85
DB36R	GEN3	DB36R	36 module	Flush	3	505H x 340W

DB8

DB12

DB12R

DB24

DB36

Isolation Switches

- GEN3 isolation switches are quality made for general industrial applications.
- All plastics are PC18 virgin grade - no regrind.
- Lockable switch.
- Laser etched markings for long life identification.
- IP66 rated and UV resistant

HAMER CODE	BRAND	CAT #	TYPE	POLE	AMP	VOLTAGE AC	IP RATING	DIMENSIONS (LxWxD) mm
UMS120	GEN3	UMS120	Ultra mini	1	20A	250V	IP66	86 x 86 x 86
MIS120	GEN3	MIS120	Mini	1	20A	250V	IP66	145 x 80 x 90
MIS135	GEN3	MIS135	Mini	1	35A	250V	IP66	145 x 80 x 90
MIS320	GEN3	MIS320	Mini	3	20A	500V	IP66	145 x 80 x 90
MIS335	GEN3	MIS335	Mini	3	35A	500V	IP66	145 x 80 x 90
UKF120	GEN3	UKF120	Standard	1	20A	250V	IP66	170 x 80 x 87
UKF135	GEN3	UKF135	Standard	1	35A	250V	IP66	170 x 80 x 87
UKF320	GEN3	UKF320	Standard	3	20A	500V	IP66	170 x 80 x 87
UKF335	GEN3	UKF335	Standard	3	35A	500V	IP66	170 x 80 x 87

UMS120

MIS120

UKF335

Industrial Surface Switches

- GEN3 industrial surface switches are quality made for general industrial applications.
- All plastics are PC18 virgin grade - no regrind.
- Lockable rotary switch.
- Laser etched markings for long life identification.
- Mounting template and E1 base supplied as standard.
- IP66 rated and UV resistant. Compatible with other major industrial brands.

S2P20

HAMER CODE	BRAND	CAT #	POLE	AMP	VOLTAGE AC	IP RATING
S1P10	GEN3	S1P10	1	10A	250V	IP66
S1P20	GEN3	S1P20	1	20A	250V	IP66
S1P32	GEN3	S1P32	1	32A	250V	IP66
S2P10	GEN3	S2P10	2	10A	500V	IP66
S2P20	GEN3	S2P20	2	20A	500V	IP66
S3P10	GEN3	S3P10	3	10A	500V	IP66
S3P16	GEN3	S3P16	3	16A	500V	IP66
S3P20	GEN3	S3P20	3	20A	500V	IP66
S3P32	GEN3	S3P32	3	32A	500V	IP66
S3P40	GEN3	S3P40	3	40A	500V	IP66
S3P50	GEN3	S3P50	3	50A	500V	IP66
S3P63	GEN3	S3P63	3	63A	500V	IP66

Appliance Inlets

- GEN3 appliance inlets are a quality made fixed wired inlet plug with insulated live pins and earth pin for general industrial applications.
- Clear translucent cover with stainless steel springs for anti corrosion.
- Male thread for secure connection to collar ring of industrial extension socket. Laser etched markings for long life identification.
- Dual rubber moulded seals.
- Mounting template and E1 base supplied as standard. IP66 rated and UV resistant. Compatible with other major industrial brands.

HAMER CODE	BRAND	CAT #	POLE	AMP	VOLTAGE AC	PINS	IP RATING
API310	GEN3	API310	1	10A	250V	3 flat	IP66
API315	GEN3	API315	1	15A	250V	3 flat	IP66

API315

Chemical resistance comparison chart

PLEASE NOTE;
This chart should only be used as a guide only. Test to determine the suitabilityof any chemical with any plastic, should be carried out. Please remember your safety equipment when using chemicals while testing.

Chemical	PVC	PC
Acetaldehyde	G	F
Acetamide	NR	NR
Acetic Acid 50%	E	F
Acetic Acid 5%	E	E
Acetone	E	NR
Acetopenone	NR	NR
Aluminium Hydroxide	E	20%
Amonium	E	NR
Amonium Hydroxide	E	NR
Ammonium Oxalate	E	NR
Amyl Chloride	NR	NR
Aniline	NR	F
Benzaidehyde	NR	F
Benzene	NR	NR
Benzoic Acid, Sat.	E	E
Benzyl Acetate	F	NR
Bonic Acid	E	E
Bromine	G	NR
Bromobenzene	F	NR
Butyric Acid	G	NR
Calcium Hypochlorite	G	G
Carbazole	G	F
Carbon Disulfide	NR	NR
Carbon Tetrachloride	G	NR
Chlorine	E	NR
Chloroacetic Acid	F	20%
Chlorofoam	NR	NR
Chromic Acid	E	20%
Citric Acid	G	10%
Cresol	NR	NR
Cyclohexane	G	E
Decalin	E	E
Diethyl Benzene	NR	NR

Chemical	PVC	PC
Diethyl Ether	F	NR
Diethyl Ketone	NR	NR
Diethyl Maionate	G	NR
Dimethyl Ether	E	E
Dimethyl Formamide	F	NR
Ether	F	NR
Ethyl Acetate	F	NR
Ethyl Alcohol (Ethonal)	E	E
Ethyl Benzene	NR	NR
Ethyl Benzoate	NR	NR
Ethyl Butyrate	NR	NR
Ethyl Chloride, Liquid	E	NR
Ethyl Cyanoacetate	NR	NR
Ethyl Lactate	F	F
Ethyl Methyl Ketone	NR	NR
Ethylene Chloride	NR	NR
Ethylene Glycol	E	G
Rhtylene Oxide	F	F
Fluorine	NR	F
Formic Acid, 50%	G	E
Formic Acid, 90-100$	F	F
Fuel Oil	E	G
Gasoline	G	G
Glycerine	E	E
Hexane	G	G
Hydraulic Oil	NR	NR
Hydrachloriric Acid, 1-5%	E	E
Hydrochloric Acid, 35%	G	F
Hydrofluoric Acid, 4%	G	E
Hydrofluoric Acid, 48%	G	G
Hydrogen	E	E
Hydrogen Peroxide	E	30%
Isopropyl Acetate	NR	NR

Chemical	PVC	PC
Isopropyl Benzene	NR	NR
Kerosene	E	E
Lactic Acid, 3%	G	E
Lactic Acid, 85%	G	F
Lubricating Oils	G	E
Magnesium Salts	E	E
Methane	E	E
Methoxyethyl Oleate	NR	NR
Methyl Alcohol (Methonal)	E	NR
Methyl Benzene	NR	NR
Methyl Ethyl Ketone	NR	NR
Methyl Isobutyl Ketone	NR	NR
Methyl Propyl Ketone	NR	NR
Methylene Chloride	NR	20%
Mild Detergent	E	E
n-Amyl Acetate	F	NR
n-Butyl Acetate	NR	NR
n-Heptane	F	G
Nitric Acid, 50%	G	F
Nitric Acid, 70%	F	NR
Nitrobenzene	NR	NR
n-Octane	F	NR
o-Dichlorobenzene	G	NR
Orange Oil	F	F
p-Dichiorobenzene	NR	NR
Perchloric Acid	G	10%
Perchloroethylene	NR	NR
Petroleum	E	E
Phenol, Crystats	F	NR
Phosphoric Acid, 1-5%	E	E
Phosphoric Acid, 85%	E	E
Potassium Hydroxide	E	F
Propane Gas	E	F

Chemical	PVC	PC
Propylene Glycol	F	G
Propylene Oxide	F	G
Resorinol	F	G
Salicytaldehyde	F	G
sec-Butyl Alcohol	G	G
Sodium Hydroxide 10%	E	NR
Sodium Hydroxide 5%	E	E
Sulfur Dioxide, Liquid	F	E
Sulfure Salts	NR	NR
Sulfuric Acid, 1-6%	E	E
Sulfuric Acid, 20%	E	E
Sulfuric Acid, 60%	E	F
Sulfuric Acid, 98%	NR	NR
Tartaric Acid	E	30%
Tetrahydrofuran	NR	NR
Thionyl Chloride	NR	NR
Toluene	F	NR
Trichloroethane	NR	NR
Trichloroethylene	NR	NR
Turoentine	G	F
Vinylidene Chloride	NR	NR
Water (Ambient)	E	E
Water (Hot>60%C°)	E	E
Water (Steam)	NR	F
Xylene	NR	NR
Zibc Salts / Stearate	E	E

G	GOOD
F	FAIR
E	EXCELLENT
NR	NOT RESISTANT
%	CONCENTRATE MAX

RCBO (Residual Current Breaker with Overload) 30mA 6kA

G600016

- GEN3 residual current circuit breaker with overload protection (RCBO).
- Type A.
- Single module width.
- Earth leakage protection.
- Short circuit protection.
- Over voltage protection.
- Switched LINE and NEUTRAL for increased safety.
- Complies with AS/NZS 61009,1.
- Accessories: BUS14G6 14 way busbar comb for RCBO linking, also TERMG6 single terminal connector.

HAMER CODE	BRAND	CAT #	POLE	AMP	VOLTAGE AC
G600010	GEN3	G6000-10	1	10A	240V
G600016	GEN3	G6000-16	1	16A	240V
G600020	GEN3	G6000-20	1	20A	240V
G600025	GEN3	G6000-25	1	25A	240V

RCCB (Residual Current Device - RCD) Type A 30mA

RCD240

- GEN3 residual current operated circuit-breaker without integral overcurrent protection for household and similar uses (RCCBs).
- RCD 2 pole circuit breaker.
- Type A - for AC and residual pulsating direct currents.
- For Din rail mounts.
- Complies with AS/NZS 61008,1.

HAMER CODE	BRAND	CAT #	POLE	AMP	VOLTAGE AC
RCD240	GEN3	RCD2/40A	2	40A	240V
RCD263	GEN3	RCD2/63A	2	63A	240V

MCB (Miniature Circuit Breaker) Type C 6kA

- GEN3 miniature circuit breaker protection for household and similar uses (MCB).
- MCB 1 and 3 pole circuit breaker options.
- Type C 6kA.
- For Din rail mounts.
- Complies with AS/NZS 60898,1.

HAMER CODE	BRAND	CAT#	POLE	AMP	VOLTAGE AC
MCB6106	GEN3	MCB6/106	1	6A	240V
MCB6110	GEN3	MCB6/110	1	10A	240V
MCB6116	GEN3	MCB6/116	1	16A	240V
MCB6120	GEN3	MCB6/120	1	20A	240V
MCB6125	GEN3	MCB6/125	1	25A	240V
MCB6132	GEN3	MCB6/132	1	32A	240V
MCB6140	GEN3	MCB6/140	1	40A	240V
MCB6150	GEN3	MCB6/150	1	50A	240V
MCB6163	GEN3	MCB6/163	1	63A	240V
MCB6310	GEN3	MCB6/310	3	10A	415V
MCB6316	GEN3	MCB6/316	3	16A	415V
MCB6320	GEN3	MCB6/320	3	20A	415V
MCB6325	GEN3	MCB6/325	3	25A	415V
MCB6332	GEN3	MCB6/332	3	32A	415V
MCB6340	GEN3	MCB6/340	3	40A	415V
MCB6350	GEN3	MCB6/350	3	50A	415V
MCB6363	GEN3	MCB6/363	3	63A	415V

MCB6110

MCB6363

FST Flextrace Self-Limiting Tape

- Self-regulating heating cables of the FST & FSG range are used to protect against freezing or to maintain moderate temperatures.
- To ensure that these heating elements enjoy a long service life, we recommend using a control device, JH850 - FX/TM2/120 electronic thermostat.
- Metre marked cable can be cut to length on site (sold per metre).
- Will not self-destruct by overheating.
- Power supply: 230V AC.
- Permissible surface temperature - unenergised circuit: max. + 85°C / energised circuit: max. + 65°C.
- Available as 15, 25, 30 or 40 W/m at + 10°C.
- FSG/T: self-regulating cables, thermoplastic insulation with tinned copper braid for mechanical protection and earthing.
- FST: self-regulating cables, thermoplastic insulation.
- FST/TF: self-regulating cables with tinned copper braid and outer fluoropolymer sheath, ideal for the chemical industry where corrosive substances may be present. FST/TF can, with the appropriate accessories, be used in an explosive atmosphere.
- NOTE - heat trace cable must be installed in accordance with current AS/NZS standards, please refer to manufacturers instructions before installing Flexelec product.
- Accessories: JH850 - FX/TM2/120 Flexelec electronic thermostat -30 to +120°C din rail, JH855 - FX/BOITIER IP54 enclosure box for FX/TM thermostat, termination kits JH325 for FST, JH333 for FSG/T, and JH335 for FST/TF. JH860 - FX/ETIQ self-adhesive warning label, JH840 - FTAL aluminium adhesive foil tape 50mm W x 50mt, JH865 - FX/PBA pipe bracket for fixing of FX/BOITIER junction box.

JH389

JH850

JH855

JH860

HAMER CODE	BRAND	CAT #	WATTS/M	MAXIMUM CIRCUIT LENGTH	THICKNESS x WIDTH mm
JH384	Flexelec	FST-15	16W/m	154m	4 x 11
JH389	Flexelec	FST-25	25W/m	124m	4 x 11
JH230	Flexelec	FSG/T-30	30W/m	92m	4.5 x 8.5
JH397	Flexelec	FST-30	31W/m	110m	4 x 11
JH391	Flexelec	FST/TF-30	31W/m	110m	6 x 13
JH392	Flexelec	FST-40	40W/m	88m	4 x 11

Application in the cold room

Expert manufacturer of flexible heating cables, elements & accessories

flexelec
GROUPE OMERIN

CSC2 Flexdrain Drain-line Heater Cable

- Flexelec CSC2 silicon elastomer insulated drain-line heater cables are designed to be laid inside copper pipes and drain pans for draining water from thawing refrigeration equipment installed in cold rooms.
- They operate only during thawing cycles.
- To ensure that these heating elements enjoy a long service life, we recommend using a control device, JH850 - FX/TM2/120 electronic thermostat.
- Heating cable fully sealed.
- Double insulation.
- Extremely flexible silicon elastomer insulated drain-line heater cable.
- Voltage 230V AC, 40 watts/metre.
- Power cable: 1m long cold tail.
- Permissible surface temperature: from -70°C to +200°C max.
- Note: not suitable for use with PVC pipe.
- Caution: these CSC2 cables must never be cut to shorten the cold tail.
- NOTE - heat trace cable must be installed in accordance with current AS/NZS standards, please refer to manufacturers instructions before installing Flexelec product.
- Accessories: JH850 - FX/TM2/120 Flexelec electronic thermostat -30 to +120°C din rail, JH855 - FX/BOITIER IP54 enclosure box for FX/TM thermostat, JH860 - FX/ETIQ self adhesive warning label, JH865 - FX/PBA pipe bracket for fixing of FX/BOITIER junction box.

JH455

HAMER CODE	BRAND	CAT #	TOTAL WATTS	LENGTH	THICKNESS x WIDTH mm
JH445	Flexelec	CSC2-40W, 1.0m	40	1m	5 x 7
JH450	Flexelec	CSC2-52W, 1.3m	52	1.3m	5 x 7
JH455	Flexelec	CSC2-60W, 1.5m	60	1.5m	5 x 7
JH460	Flexelec	CSC2-80W, 2.0m	80	2m	5 x 7
JH465	Flexelec	CSC2-120W, 3.0m	120	3m	5 x 7
JH470	Flexelec	CSC2-160W, 4.0m	160	4m	5 x 7
JH475	Flexelec	CSC2-200W, 5.0m	200	5m	5 x 7
JH480	Flexelec	CSC2-240W, 6.0m	240	6m	5 x 7

CSC2K Flexdrain Drain-Pan Heater Cable with Integrated Thermostat

- Flexelec CSC2K silicon elastomer insulated drain-pan heater cables are designed to be placed at the bottom of collector trays inside refrigeration equipment in cold rooms, to prevent freezing and to allow condensate water to flow freely.
- The integrated thermostat makes them fully autonomous.
- Thermostat at the end of the cable preset at +5°C/+15°C.
- Mount with thermostat mounted in the air.
- Heating cable fully sealed.
- Double insulation.
- Extremely flexible silicon elastomer insulated drain-pan heater cable.
- Voltage 230V AC, 40 watts/metre.
- Power cable:1m long cold tail.
- Permissible surface temperature: from -40°C to +110°C max.
- Note: not suitable for use with PVC pipe.
- Caution: these CSC2K cables must never be cut to shorten the cold tail.
- NOTE - heat trace cable must be installed in accordance with current AS/NZS standards, please refer to manufacturers instructions before installing Flexelec product.
- Accessories: JH860 - FX/ETIQ self adhesive warning label.

CSC2K15M

HAMER CODE	BRAND	CAT #	TOTAL WATTS	MAXIMUM CIRCUIT LENGTH	THICKNESS x WIDTH MM
CSC2K1M	Flexelec	CSC2K/1/40-2	40	1m	5 x 7
CSC2K13M	Flexelec	CSC2K/1.3/52-2	52	1.3m	5 x 7
CSC2K15M	Flexelec	CSC2K/1.5/60-2	60	1.5m	5 x 7
CSC2K2M	Flexelec	CSC2K/2/80-2	80	2m	5 x 7
CSC2K3M	Flexelec	CSC2K/3/120-2	120	3m	5 x 7
CSC2K4M	Flexelec	CSC2K/4/160-2	160	4m	5 x 7
CSC2K5M	Flexelec	CSC2K/5/200-2	200	5m	5 x 7
CSC2K6M	Flexelec	CSC2K/6/240-2	240	6m	5 x 7

Heat Trace Cable Accessories

- Flexelec self-regulating heating cable accessories
- NOTE - Heat trace cable must be installed in accordance with current AS/NZS Standards, Please refer to manufacturers instructions before installing Flexelec product.

JH850

JH855

JH865

JH860

JH840

JH333

HAMER CODE	BRAND	CAT. #	DESCRIPTION	FEATURES
JH850	Flexelec	FX/TM2/120	Electronic thermostat	130 to +120°C, Din rail mt, 10A 250V AC
JH855	Flexelec	FX/BOITIER	Enclosure box for FX/TM thermostat	IP54
JH865	Flexelec	FX/PBA	Pipe & junction box bracket attachment	
JH333	Flexelec	FS/KIT/T	Termination kit for FSG/T	
JH325	Flexelec	FS/KIT	Termination kit for FST	
JH335	Flexelec	FS/KIT-TP	Termination kit for FST/TF	
JH860	Flexelec	FX/ETIQ	Self adhesive warning label	Cable tracing AS/NZS requirement
JH840	Flexelec	AD/FTAL	Adhesive 425 aluminium foil tape	50mm wide x 50mt

Thermal Circuit Breaker - TA45 Rocker Actuation series

- TA45 rocker actuation series thermal circuit breakers for use in many applications such as power tools, industrial appliances, and power supplies.
- Features: snap-in version.
- 1 or 2 pole thermal overload protection, rocker type.
- Quick connect terminals 6,3 x 0,8 mm.
- Styles of TA45 rocker switches include - rocker non-illuminated (TA45-ABT), non-illuminated with undervoltage release coil (TA45-ABT xx xxx U2), or rocker illuminated (TA45-A12) & illuminated with undervoltage release coil (TA45-A12 xx xxx U2).
- Positively trip-free release.
- Available with optional IP54 cover AZM11 - code WB4010.
- Standards approval reference type: TA45 include, IEC 60934/ UL 1077/ CSA C22,2
  No 235, /GB 17701.
- Rated voltage AC 240V 50/60 Hz.
- Rated voltage DC 60V.
- Rated current range AC 0,05 - 20 A (some sizes/variants by indent, MOQs apply).

HAMER CODE	BRAND	CAT #	STYLE	CURRENT
WB4010	Schurter	AZM11	IP54 Cover	
WB3634	Schurter	ABT WF J18 C0	Rocker switch	1.8 A
WB3638	Schurter	ABT WF 035 C0	Rocker switch	3.5 A
WB3680	Schurter	ABT WF 040 C0	Rocker switch	4.0 A
WB3642	Schurter	ABT WF 050 C0	Rocker switch	5.0 A
WB3644	Schurter	ABT WF 060 C0	Rocker switch	6.0 A
WB3646	Schurter	ABT WF 070 C0	Rocker switch	7.0 A
WB3648	Schurter	ABT WF 080 C0	Rocker switch	8.0 A
WB3650	Schurter	ABT WF 090 C0	Rocker switch	9.0 A
WB3600	Schurter	ABT WF 100 C0	Rocker switch	10 A
WB3620	Schurter	ABT WF 120 C0	Rocker switch	12 A

WB4010

WB3730

WB3711

WB3774

HAMER CODE	BRAND	CAT #	STYLE	CURRENT
WB3625	Schurter	ABT WF 140 C0	Rocker switch	14 A
WB3682	Schurter	ABT WF 150 C0	Rocker switch	15 A
WB3640	Schurter	ABT WF 160 C0	Rocker switch	16 A
WB3684	Schurter	ABT WF 200 C0	Rocker switch	20 A
WB3730	Schurter	ABT WF 060 U2	Undervoltage release coil	6.0 A
WB3706	Schurter	A12 6F J10 C0	Illuminated switch	1.0 A
WB3722	Schurter	A12 6F 030 C0	Illuminated switch	3.0 A
WB3950	Schurter	A12 6F 140 C0	Illuminated switch	14 A
WB3711	Schurter	A12 6F 160 C0	Illuminated switch	16 A
WB3774	Schurter	A12 6F 150 U2	Illuminated & undervoltage release coil	15 A

WB2000

WB2060

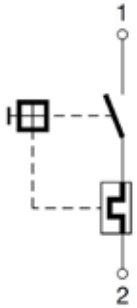
Thermal Circuit Breaker - T11 series

- T11-211 series thermal circuit breakers for use in many applications such as power tools, household equipment, power supplies and chargers and industrial appliances.
- Features: threaded neck type 6 mm.
- 1 pole, push to reset type.
- Quick connect terminals 6,3 x 0,8 mm.
- Compact design.
- Positively trip-free release.
- Available with optional IP54 dust cover TZZ01 - code WB2000.
- Different mounting possibilities.
- Standards approval reference type: T11 include, IEC 60934/ UL 1077/ CSA C22,2 No 235, /GB 17701.
- Rated voltage AC 240V 50/60 Hz.
- Rated voltage DC 48V.
- Rated current range AC 0,05 - 16 A.

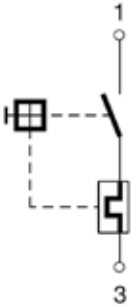
HAMER CODE	BRAND	CAT #	CURRENT
WB2000	Schurter	TZZ01	
WB2040	Schurter	T11 211 0.2	0.2 A
WB2060	Schurter	T11 211 0.3	0.3 A
WB2080	Schurter	T11 211 0.4	0.4 A
WB2100	Schurter	T11 211 0.5	0.5 A
WB2120	Schurter	T11 211 0.6	0.6 A
WB2140	Schurter	T11 211 0.7	0.7 A
WB2160	Schurter	T11 211 0.8	0.8 A
WB2180	Schurter	T11 211 1.0	1.0 A
WB2200	Schurter	T11 211 1.2	1.2 A
WB2220	Schurter	T11 211 1.5	1.5 A

HAMER CODE	BRAND	CAT #	CURRENT
WB2240	Schurter	T11 211 1.8	1.8 A
WB2400	Schurter	T11 211 2.0	2.0 A
WB2420	Schurter	T11 211 2.3	2.3 A
WB2440	Schurter	T11 211 2.5	2.5 A
WB2460	Schurter	T11 211 2.8	2.8 A
WB2500	Schurter	T11 211 3.0	3.0 A
WB2520	Schurter	T11 211 3.5	3.5 A
WB2540	Schurter	T11 211 4.0	4.0 A
WB2550	Schurter	T11 211 4.5	4.5 A
WB2560	Schurter	T11 211 5.0	5.0 A
WB2570	Schurter	T11 211 5.5	5.5 A
WB2580	Schurter	T11 211 6.0	6.0 A
WB2600	Schurter	T11 211 6.5	6.5 A
WB2620	Schurter	T11 211 7.0	7.0 A
WB2630	Schurter	T11 211 7.5	7.5 A
WB2640	Schurter	T11 211 8.0	8.0 A
WB2660	Schurter	T11 211 9.0	9.0 A
WB2280	Schurter	T11 211 10.235	10.235 A
WB2300	Schurter	T11 211 12.0	12.0 A
WB2320	Schurter	T11 211 13.0	13.0 A
WB2340	Schurter	T11 211 14.0	14.0 A
WB2360	Schurter	T11 211 15.0	15.0 A
WB2380	Schurter	T11 211 16.0	16.0 A

RATED CURRENT ≤7,5 A



RATED CURRENT >7,5 A



T11 DIAGRAMS

WB2000

T13-212

T13-211

Thermal Circuit Breaker - T13 series

- T13 series thermal circuit breakers for use in many applications such as power supplies, uninterruptable power supply, power tools and household appliances.
- Features: threaded neck type 6 mm.
- 1 pole, push to reset type.
- T13-211 quick connect terminals 6,3 x 0,8 mm / T13-212 bolt and nut screw terminals.
- High breaking capacity.
- Positively trip-free release.
- Available with optional IP54 dust cover TZZ01 - code WB2000.
- Different mounting possibilities.
- Standards approval reference type: T13 include, IEC 60934/ UL 1077/ CSA C22,2 No 235, /GB 17701.
- Rated voltage AC 240/277V 50/60 Hz.
- Rated voltage DC 28V.
- Rated current range AC 0,05 - 30 A (other sizes by indent, MOQs apply)

HAMER CODE	BRAND	CAT #	CURRENT
WB2000	Schurter	TZZ01	
WB3467	Schurter	T13 212 20	20 A
WB3460	Schurter	T13 211R 30.0	30 A

Motor Rated Capacitors - Start Capacitor EL Series 250V AC

- Comar Condensatori motor rated start capacitor - electrolytic capacitors EL type.
- A quality capacitor made in Italy since 1968.
- The electrolytic capacitors have high capacitance (µF value) able to provide a high starting torque to the motor.
- Terminals: double tag 6,3mm x 0,8mm.
- Case: plane base self-extinguishing (V2) plastic.
- Capacitor provided with fixing bracket and protective cap as standard.
- Rated voltage: EL 250V – 320 Vac.
- Rated frequency: 50 Hz – 60 Hz.
- Working temperature: -25°C-+75°C.
- Operating class: 1,67%.
- Loss factor: ≤0,10 typical value.
- Test voltage between terminals: 1,4Vn x 1 sec.
- Test voltage between terminals and case:1,5kV x 5 sec.
- Endurance test: 500h.
- Reference standard: EN60252-2.
- Optional accessory: CS902 30cm long pre-terminated bi-polar wire lead.

CS050

CS902

HAMER CODE	BRAND	CAT #	CAPACITANCE µF	DIMENSIONS Ø x L MM
CS025	Comar Condensatori	8140612	25-31	46 x 98
CS032	Comar Condensatori	8140712	31.5-40	46 x 98
CS040	Comar Condensatori	8140812	40-50	46 x 98
CS050	Comar Condensatori	8140912	50-63	46 x 98
CS063	Comar Condensatori	8141012	63-80	46 x 98
CS080	Comar Condensatori	8141112	80-100	46 x 98
CS100	Comar Condensatori	8141212	100-125	46 x 98
CS125	Comar Condensatori	8141312	125-160	46 x 98
CS160	Comar Condensatori	8141412	160-200	46 x 98
CS200	Comar Condensatori	8141512	200-250	46 x 98
CS250	Comar Condensatori	8141612	250-315	46 x 98
CS315	Comar Condensatori	8141712	315-400	46 x 98
CS902	Comar Condensatori	CS902	n/a	30 cm

COMAR Condensatori

For the best quality capacitors

MK 450V AC	–	Motor Run series
EL 250V AC	–	Motor Start series
MFE 250V AC	–	Lighting series

SCHURTER

ELECTRONIC COMPONENTS

SCHURTER thermal resettable circuit breakers for electric and electronic equipment protection against overcurrent.

Thermal rocker switches with and without under-voltage start up protection.

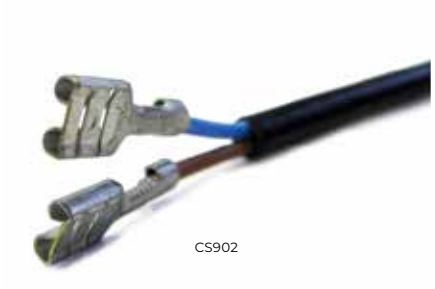
Motor Rated Capacitors - Run Capacitor MK Series Heavy Duty 450V AC

- Comar Condensatori motor rated run capacitors - MK series for heavy duty motor application.
- A quality capacitor made in Italy since 1968.
- Terminals: 6.3mm fast push on double tags.
- M8 x 10mm mounting stud with externally toothed anti-shake washer and M8 nut.
- Rated voltage: 450V AC.
- Rated frequency: 50 Hz – 60 Hz (optional).
- Capacitance tolerance: ±5%.
- Operating class: 420V – A 30,000h (HPFNS).
- Climatic category: 25/85/21, 25°C/+85°C.
- Loss factor: ≤5 x 10-4 typical value.

HAMER CODE	BRAND	CAT #	CAPACITANCE µF	DIMENSIONS Ø x L MM
CR101	Comar Condensatori	8050532	1	30 x 57
CR102	Comar Condensatori	8051132	2	30 x 57
CR103	Comar Condensatori	8051534	3.15	30 x 57
CR104	Comar Condensatori	8051634	4	30 x 57
CR105	Comar Condensatori	8051834	5	30 x 57
CR106	Comar Condensatori	8052034	6.3	30 x 70
CR108	Comar Condensatori	8052234	8	30 x 70
CR110	Comar Condensatori	8052434	10	35 x 70
CR125	Comar Condensatori	8052634	12.5	40 x 70
CR115	Comar Condensatori	8053034	15	40 x 70
CR116	Comar Condensatori	8053234	16	40 x 70
CR200	Comar Condensatori	8053634	20	40 x 94
CR250	Comar Condensatori	8053834	25	45 x 94
CR300	Comar Condensatori	8054032	30	45 x 94

CR250

- Test voltage between terminals: 2Vn x 2 sec.
- Test voltage between terminals and case: 2kV x 2 sec.
- Reference standard: EN60252-1, VDE 560-8.
- Approvals: VDE – EN60252-1 (1.5 ÷45 µF) IMQ – EN 60252-1 (1.5 ÷45 µF).
- Optional accessory: CS902 30cm long pre-terminated bi-polar wire lead, plus various protective caps.



CS902

PROTECTIVE CAPS

HAMER CODE	BRAND	CAT #	CAPACITANCE µF	DIMENSIONS Ø X L MM
CR350	Comar Condensatori	8054232	35	50 x 94
CR400	Comar Condensatori	8054432	40	50 x 94
CR500	Comar Condensatori	8054832	50	50 x 120
CR550	Comar Condensatori	8054932	55	55 x 120
CR600	Comar Condensatori	8055132	60	55 x 120
CR750	Comar Condensatori	8055356	75	60 x 120
CR800	Comar Condensatori	8055432	80	60 x 120
CS902	Comar Condensatori	CS902	n/a	30cm L
CR109	Comar Condensatori	7800493	Protective cap	30mm Ø
CR111	Comar Condensatori	7800893	Protective cap	35mm Ø
CR201	Comar Condensatori	7801293	Protective cap	40mm Ø
CR301	Comar Condensatori	7801493	Protective cap	45mm Ø
CR501	Comar Condensatori	7801693	Protective cap	50mm Ø
CR601	Comar Condensatori	7801893	Protective cap	55mm Ø
CR801	Comar Condensatori	7802093	Protective cap	60mm Ø

Lighting Capacitors - MFE Series 250V AC

- Comar Condensatori lighting capacitors - MFE series 250V AC.
- A quality capacitor made in Italy since 1968.
- Terminals: CVR200 - 200mm rigid wire leads.
- M8 x 10mm mounting stud with externally toothed anti-shake washer and M8 nut.
- Rated voltage: 250V AC.
- Rated frequency: 50Hz.
- Capacitance tolerance: ±10%.
- Working temperature: -25° / + 85°.
- Climatic category: 25/85/21.
- Loss factor: ≤5 x 10-4 typical value.
- Test voltage between terminals: 2Vn x 10 sec.
- Test voltage between terminals and case: 2kV x 10 sec.

8032411

HAMER CODE	BRAND	CAT #	CAPACITANCE µF	DIMENSIONS Ø x L MM
8030311	Comar Condensatori	8030311	2	25 x 57
8030612	Comar Condensatori	8030612	2.5	25 x 57
8030630	Comar Condensatori	8030630	3	25 x 57
8030914	Comar Condensatori	8030914	3.15	25 x 57
8031010	Comar Condensatori	8031010	3.5	25 x 57
8031811	Comar Condensatori	8031811	4	25 x 57
8032110	Comar Condensatori	8032110	4.5	25 x 57
8032411	Comar Condensatori	8032411	5	25 x 57
8032721	Comar Condensatori	8032721	6	25 x 70
8033111	Comar Condensatori	8033111	6.3	25 x 70
8033320	Comar Condensatori	8033320	7	30 x 70
8033610	Comar Condensatori	8033610	8	30 x 70
8033910	Comar Condensatori	8033910	9	30 x 70
8034213	Comar Condensatori	8034213	10	30 x 70
8034313	Comar Condensatori	8034313	11	30 x 70

HAMER CODE	BRAND	CAT #	CAPACITANCE µF	DIMENSIONS Ø x L MM
8034820	Comar Condensatori	8034820	12	30 x 70
8035110	Comar Condensatori	8035110	12.5	30 x 70
8035210	Comar Condensatori	8035210	14	35 x 70
8035515	Comar Condensatori	8035515	15	35 x 70
8035713	Comar Condensatori	8035713	16	35 x 70
8036110	Comar Condensatori	8036110	18	40 x 70
8036310	Comar Condensatori	8036310	20	40 x 70
8036710	Comar Condensatori	8036710	25	40 x 94
8037019	Comar Condensatori	8037019	30	40 x 94
80370192	Comar Condensatori	80370192	31.5	40 x 94
8037210	Comar Condensatori	8037210	35	45 x 94
8037410	Comar Condensatori	8037410	40	45 x 94
8037610	Comar Condensatori	8037610	45	45 x 94
8038120	Comar Condensatori	8038120	50	50 x 94
8038210	Comar Condensatori	8038210	55	50 x 120

SCHMERSAL

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ENERGY AND AUTOMATION

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CS080	8141112	50
CS100	8141212	50
CS125	8141312	50
CS160	8141412	50
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