



Электронные компоненты, радиодетали

Мы не работаем с частными (физическими) лицами.
Мы работаем только с юридическими лицами(организациями) и ИП и только по безналичному расчёту.

где и как купить в Минске?

каталог, описание, технические, характеристики, datasheet, параметры, маркировка, габариты, фото, Производитель, Наименование, Тип контактов, Номинальное напряжение катушки, Тип тока катушки, Мощность катушки максимальная, Номинальный ток коммутации, Коммутируемое напряжение DC (макс), Коммутируемое напряжение AC (пиковое), Напряжение изоляции, катушка-контакты, Рабочая температура, Длина, Ширина, Высота, Способ подключения выводов, Тип колодки для подключения реле, Магнитная система катушки, Семейство, колодки, розетки

Реле Crouzet

ОПИСАНИЕ

В номенклатуру реле Crouzet входят разнообразные по назначению и конструкции устройства: реле контроля, включая реле тока DIART110A Crouzet, реле напряжения, фазы, защиты двигателя и прочие, реле безопасности, включая реле защиты оборудования, реле аварийного останова, реле нулевой скорости и т.д., пневматические реле давления, а также интеллектуальные реле Millenium.

Серии реле Crouzet отличаются рядом преимуществ:

- цифровой принцип обработки;
- наличие светодиодных индикаторов состояния;
- простота установки;
- симметричная циклическая работа;
- экономичная работа;
- разнообразие показателей напряжения;
- точность;
- высокая степень пылевлагозащиты.

Реле контроля перенапряжения/пониженного напряжения H3US

Реле H3US и M3US управляют трехфазными сетями, перенапряжением между фазами и пониженным напряжением между фазами.

Технические особенности:

- измеряемое/контролируемое значение: пониженное напряжение, повышенное напряжение;
- конфигурация контакта: 2 NO / NC;
- монтаж на DIN-рейку;
- напряжение запуска: макс: 528 В, мин: 194 В.

Реле управления RMC2 H1H

Технические особенности:

- управление переменным и постоянным током;
- автоматическое распознавание переменного/постоянного тока;
- диапазон измерений: от 2 мА до 10 А;

- выбор между повышенным и пониженным током;
- измерение истинного среднеквадратичного значения;
- выбираемая функция фиксации (памяти);
- тип напряжения для управления AC/DC.

Реле управления Crouzet EIH 84871034 230VAC

Технические особенности:

- трансформатор тока устанавливается путем пропускания кабеля через переднее пороговое значение переменного тока, регулируемое от 1 до 20 А переменного тока (от 30 Гц до 400 Гц) с помощью кнопки на передней панели;
- релейный выход 5 А -250 В переменного тока -1 Н / О, контакт;
- многофазное питание: 100 до 230 В переменного тока 50-60 Гц 24 В переменного/постоянного тока;
- возвращается в исходное состояние мгновенно, когда ток падает ниже порога гистерезиса или когда источник питания отключен; для EIH hysteresis crouzet схема подключения предоставляется производителем.

Реле управления уровнем ENRM 24-240VUC/ 84870210

Технические особенности:

- регулирование 1 или 2 уровней (мин./макс.);
- контроль заполнения (UP) или опорожнения (DOWN), выбранный переключателем на передней панели;
- зонды, снабженные переменным током;
- задержка по времени, предотвращающая волновой эффект, регулируется от 0,1 до 5 с (ENRM);
- передняя панель: от 250 Ω до 1 М Ω (ENRM);
- чувствительность регулируется на передней панели от 5 кОм до 100 к Ω (ENR).

Реле времени Crouzet MUR3 10- 260VUC/ 88827103

Технические особенности:

- многофункциональный или монофункциональный;
- мультивольтный;
- винтовые или пружинные клеммы;
- светодиодный индикатор состояния;
- возможность подключения внешней нагрузки параллельно входу управления;
- совместим с 3-проводным датчиком PNP;
- интервалы времени (7 диапазонов): 1 с - 10 с - 1 мин - 10 мин - 1 ч - 10 ч - 100 ч.

Реле времени ARMOIRE R Crouzet MAR1

Технические особенности:

- многофункциональный или монофункциональный;
- светодиодный индикатор состояния;
- совместим с 3-проводным датчиком PNP.

Реле аварийного останова KNA3-YS 24VUC/ 85102031

Технические особенности:

- функции «Аварийная остановка» и «Мониторинг ворот»;
- работа в одном канале;
- безопасность с резервированием и цепью обратной связи;
- 3 защитных контакта;
- 1 контакт контроля «НЗ»;
- класс безопасности: 3 (согласно EN 954-1);
- уровень производительности (PL) d, безопасность категория 3 в соответствии с EN ISO 13849-1;
- заявленный уровень SIL (SIL CL) 2 в соответствии с IEC / EN 62061;

- клеммы: фиксированные винтовые клеммы или клеммы с клеммными колодками.

Millenium EVO, интеллектуальное реле 88975001

Технические особенности:

- 24 В пост. тока;
- 16 цифровых входов (8 аналоговых-4 высокоскоростных);
- 8 цифровых выходов;
- локальный регистр данных;
- Free Soft, MEM;
- 1024 блока;
- специальный FBD;
- 32-битное управление;
- Modbus RS485;
- Bluetooth / виртуальный дисплей.

SOLID STATE RELAYS

- AC Voltage: Single Phase & Three Phase
- AC Voltage Multichannel
- DC Voltage
- Smart SSR






Selection Guide - SSR

Crouzet's Solid State Relays

A series of multipurpose Solid State Relays, in both panel mount, DIN Rail mount and PCB mount. To switch DC loads from 4 to 40 A / 5 to 200 VDC, and switch AC loads from 4 A to 125 A / 24 to 660 VAC.

AC VOLTAGE SINGLE PHASE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GNA Essential Version	25 A	24-280 VAC	4-32 VDC	cRUus, CE
	40 A	48-660 VAC		
	50 A			
	90 A			
 GN Classic Version	10 A	24-280 VAC	4-32 VDC	cRUus, CE, VDE
	10 A		20-265 VAC	cRUus, CE
	25 A	24-280 VAC	4-32 VDC	cRUus, CE
	25 A		18-36V AC/DC	
	25 A	48-660 VAC	20-265 VAC	cRUus, CE, VDE
	25 A		4-32 VDC	
	25 A		20-265 VAC	
	25 A		4-32 VDC	
	50 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE
	50 A		18-36V AC/DC	
	50 A	48-660 VAC	20-265 VAC	cRUus, CE
	50 A		4-32 VDC	
	75 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE
	75 A		20-265 VAC	
	100 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE
	100 A		20-265 VAC	
125 A	48-660 VAC	4-32 VDC	cRUus, CE, VDE	
125 A		20-265 VAC		
 GN+ Performance Version	25 A	12-270 VAC	4-32 VDC	cRUus, CE, VDE
	25 A		20-260 VAC/DC	
	50 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	50 A		20-260 VAC/DC	
	90 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	90 A		20-260 VAC/DC	
	125 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	125 A		20-260 VAC/DC	

Solid State Relays Features

Removable covers and output protection included
Smart load diagnostic versions
Resistive, Inductive and Capacitive loads

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating	• To use in simple applications	GNA25DZL	84137910N
					GNA40DZH	84137450N
					GNA50DZH	84137460N
					GNA90DZH	84137480N
	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN10DZL	84137000N
					GN10AZL	84137001N
					GN25DZL	84137010N
					GN25CZL	84137012N
					GN25AZL	84137011N
					GN25DZH	84137110N
					GN25AZH	84137111N
					GN50DZH	84137120N
					GN50CZH	84137122N
					GN50AZH	84137121N
					GN75DZH	84137130N
					GN75AZH	84137131N
	Panel Mount "Hockey Puck"	Random (Instantaneous)	Inductive Loads: • Motion • Miscellaneous (high inductive loads, very strong magnetising currents, overvoltages)	• Output Protection Included (RC Snubber)	GN25DRL	84137210N
					GN25ARL	84137211N
					GN50DRL	84137320N
					GN50ARH	84137321N
					GN75DRH	84137330N
	Panel Mount "Hockey Puck"	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A) • Thermal Pad Included	GNP25DZL	84138010N
					GNP25UZL	84138013N
					GNP50DZM	84138120N
					GNP50UZM	84138123N
					GNP90DZM	84138150N
					GNP90UZM	84138153N
					GNP125DZM	84138180N
					GNP125UZM	84138183N



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AC VOLTAGE SINGLE PHASE

Type	Output		Input Voltage	Certifications
	Current	Voltage		
 GNR Classic Version	20 A	24-280 VAC	4-32 VDC	cRUus, CE
	20 A	48-660 VAC	4-32 VDC	
	20 A		80-140 VAC	
	20 A		180-280 VAC	
	30 A	48-660 VAC	4-32 VDC	
	30 A		80-140 VAC	
	30 A		180-280 VAC	
	30 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
 GNR+ Performance Version	30 A	24-500 VAC	4-32 VDC	cRUus, CE, VDE
	30 A		180-280 VAC	
	32 A		4-32 VDC	
	45 A		4-32 VDC	cRUus, CE
 GNF Specialized Version	25 A	24-280 VAC	4-30 VDC	cRUus, CE, UKCA
 GN MINI Specialized Version	20 A	24-280 VAC	4-30 VDC	cRUus, CE, UKCA
 GNZ Specialized Version	8 A	24-280 VAC	4-32 VDC	cRUus, CE, UKCA
			4-30 VDC	
 GN Board Classic Version NEW	4 A	12-275 VAC	4-30 VDC	cRUus, CE, UKCA
		12-460 VAC		
	4 A	24-600 VAC	4-10 VDC	cRUus, CE, UKCA
 GNR Mini Classic Version NEW	4 A	12-275 VAC	6-30 VDC	CE, UKCA
		12-460 VAC	12-30 VAC / 8,5-30 VDC	

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 DIN Rail 22.5 mm	DIN Rail 22.5 mm	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included	GNR20DCZL	GNR20DCZL
					GNR20DCZH	GNR20DCZH
					GNR20BCZH	GNR20BCZH
					GNR20ACZH	GNR20ACZH
					GNR30DCZH	GNR30DCZH
					GNR30BCZH	GNR30BCZH
					GNR30ACZH	GNR30ACZH
					 DIN Rail 22.5 mm	DIN Rail 22.5 mm
GNR30DCZP	GNR30DCZP					
 DIN Rail 22.5 mm	DIN Rail 22.5 mm	Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A)	GNR30ACZP	GNR30ACZP
					GNR32DCZP	GNR32DCZP
					GNR45DCZP	GNR45DCZP
 Panel Mount "Hockey Puck"	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GN20DFZL	84134017N
					GNM20DFZL	84132010N
 Panel Mount "Mini Puck"	Panel Mount "Mini Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GNM20DFZL	84132010N
					GNZ8DFZL	84132210N
 Panel Mount "Low profile"	Panel Mount "Low profile"	Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous	• Output Protection Included (VDR) • FAST-ON terminals	GNZ8DFZL	84132210N
		Random			GNZ8DFRL	84132110N
 PCB Mount	PCB Mount	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (TVS)	GNB4D2A	GNB4D2A
					GNB4D2B	GNB4D2B
					GNB4D1C	GNB4D1C
 DIN Rail	DIN Rail	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Miscellaneous (High inductive loads)	• Output Protection Included (VDR)	GNRM4D2A	GNRM4D2A
					GNRM4B1B	GNRM4B1B


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AC VOLTAGE MULTICHANNEL

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN2/GN2F 2-Channel	25 A	24-280 VAC	10-30 VDC	cRUus, CE, UKCA
	25 A		4-32 VDC	
	50 A	48-660 VAC	4-32 VDC	
	50 A	48-660 VAC	10-30 VDC	
	50 A	24-510 VAC	10-30 VDC	
 GN4 4-Channel	25 A	12-280 VAC	4-32 VDC	cRUus, CE, UKCA

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
Panel Mount "Hockey Puck"	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Two SSRs in One package	GN225DZL	84140013N
				• Fast-ON terminals	GN225DFZL	84140800N
		Zero Cross	Resistive Loads: • Heating • Lighting	• Two SSRs in One package	GN250DZL	84140603N
				GN250DZH	84140613N	
		Random	Inductive Loads: • Motion • Miscellaneous	GN250DRH	84140631N	
Panel Mount "Hockey Puck"	Panel Mount "Hockey Puck"	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous Capacitive Loads: • Miscellaneous	• Four SSRs in one package	GN425DFZL	84154010N

AC VOLTAGE THREE PHASE



Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN3 Classic Version	25 A	24-510 VAC	4-32 VDC	cRUus, CE, UKCA
	25 A			
	25 A	24-510 VAC	24-255 V AC/DC	
	50 A	24-510 VAC	4-32 VDC	
	50 A			
	50 A	24-510 VAC	24-255 V AC/DC	

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
Panel Mount "Hockey Puck"	Panel Mount "Hockey Puck"	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN325DSZH	GN325DSZH
		Random	Inductive Loads: • Motion • Miscellaneous		GN325DSRH	GN325DSRH
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)	• Output Protection Included (TVS)	GN325ASZH	GN325ASZH
		Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GN350DSZH	GN350DSZH
		Random	Inductive Loads: • Motion • Miscellaneous	• Output Protection Included (RC, VDR)	GN350DSRH	GN350DSRH
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (Strong inrush current)	• Output Protection Included (TVS)	GN350ASZH	GN350ASZH






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AC VOLTAGE THREE PHASE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GNR3 Classic Version	25 A	24-660 VAC	4-32 VDC	cRUus, CE, UKCA
	25 A	24-660 VAC	24-255 V AC/DC	
 GNO Reverse Version	25 A	24-510 VAC	12-30 VDC	cRUus, CE, UKCA
	50 A			

DC VOLTAGE

Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GNAD Essential Version	10 A	5-200 VDC	4-32 VDC	cRUus, CE
	20 A	5-100 VDC		
	40 A	5-55 VDC		
 GND Classic Version	10 A	5-200 VDC	4-32 VDC	cRUus, CE
	40 A	5-60 VDC		
 GND Board Classic Version NEW	4 A	2-60 VDC	4-30 VDC	CE, UKCA
	10 A	7-36 VDC	4-10 VDC	
			10-30 VDC	
 GNRD MINI Specialized Version NEW	4 A	2-60 VDC	5-30 VDC	CE, UKCA
			90-240 VAC/DC	
 GNRD-0 Specialized Version NEW	6 A	7-36 VDC	7-30 VDC	CE, UKCA



	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	DIN Rail 90 mm	Zero Cross	Resistive Loads: • Heating • Lighting	• Output Protection Included (TVS)	GNR325DCZH	GNR325DCZH
		Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)		GNR325ACZH	GNR325ACZH
	Panel Mount "Hockey Puck"	Special Zero Cross	Resistive Loads: • Heating • Lighting Inductive Loads: • Motion • Miscellaneous (High inductive loads) Capacitive Loads: • Miscellaneous (strong inrush current)	• Output Protection Included (RC, VDR) • Start/Stop/Reverse in the same product	GNO25DSRL	GNO25DSRL
					GNO50DSRL	GNO50DSRL



	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Panel Mount "Hockey Puck"	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	• To use in simple applications	GNAD10DH	84137650N
					GNAD20DM	84137660N
					GNAD40DL	84137670N
	Panel Mount "Hockey Puck"	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	• Output Protection Included (TVS*)	GND10DH	84137850N
					GND40DM	84137870N
	PCB Mount	DC Switching	DC Loads: • Heating • Motion • Lighting • Miscellaneous	-	GNDB4D2D	GNDB4D2D
					GNDB10D1E	GNDB10D1E
					GNDB10B1E	GNDB10B1E
	DIN Rail	DC Switching	DC Loads: • Lighting • Miscellaneous	• Output Protection Included (TVS)	GNRDM4D1C	GNRDM4D1C
					GNRDM4A1C	GNRDM4A1C
	DIN Rail	DC Switching	DC Loads: • Motion	• Output Protection Included (TVS)	GNRD06CDL	GNRD06CDL






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Load Diagnostic: Smart SSR





Type	Output		Input	Certifications
	Current	Voltage	Voltage	
 GN Smart Load Detection	50 A	24-600 VAC	4-32 VDC	cRUus, CE, VDE
	35 A	50-265 VAC	8-30 VDC	
	50 A	150-510 VAC		
	75 A			
 GNR Smart Module Load Detection	40 A	-	4-32 VDC	CE
	40 A		24-45 VDC	

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 Panel Mount "Hockey Puck"		Zero Cross	Current Detection	-	GNS50DAZH	84136120N
		Zero Cross	Load Detection	-	GNS35DDZH	84139150N
						GNS50DDZH
		GNS75DDZH				84139130N
 Module On GNR/GNR+		-	Current Detection	-	GNS40DDDR	84050040N
			Current & Diagnostic		GNS40FDDR	84050043N

ACCESSORIES

Type	Description	P/N
 Heatsinks For Panel Mount SSRs	0.9 °C/W Thermal Resistance	26532752N
	1.1 °C/W Thermal Resistance	26532753N
	1.2 °C/W Thermal Resistance	26532754N
	1.75 °C/W Thermal Resistance	26532755N
	2.2 °C/W Thermal Resistance	26532756N
	Heatsink screw mounting kit, for SSRs with Hockey Puck shape	26532001
	Heatsink screw mounting kit, for 3-phase SSRs	26532002
 Adapters For DIN Rail	DIN Rail Adaptor for SSRs with Hockey Puck shape	26532764N
 Thermal Pads For Heatsink Mounting	Pre-cut thermal pad	26532720N
	Self-adhesive thermal pad	26532722N

ACCESSORIES

Type	Description	P/N
 Screws For Heatsink Mounting	Screw Mounting Kit for Single & Dual-Phase SSR	26532001
	Screw Mounting Kit for 3-Phase SSR	26532002
 Thermal Grease For Heatsink Mounting	Thermal Grease	26532003
 Label For SSR identification	Label for SSR Identification	26532004
 Connectors	GN2, 4-Pin, 4 pole 90° & 270° set-screw connector	26532005
	GN2, 4-Pin, 4 pole 270° set-screw connector	26532006

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NEW
VG 95345

CIRCUIT BREAKERS

TEIL 6 - SINGLE-POLE & TEIL 11 - THREE-POLE



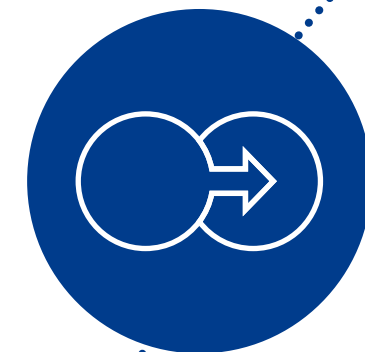
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WHY CROUZET?



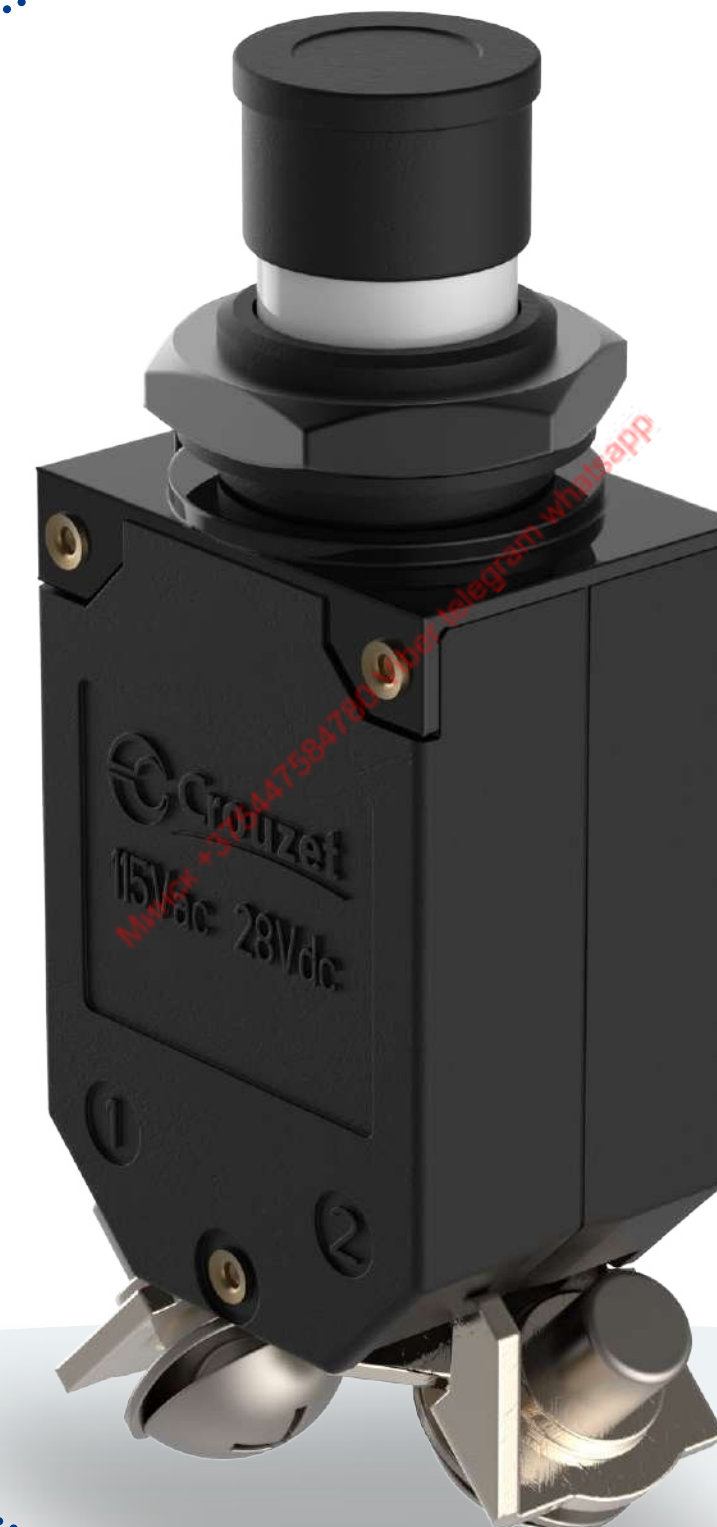
PERFECT FIT

- ✓ 100% compliant with the **VG95345 standard**
- ✓ Completely interchangeable



LIGHTER

Our single pole version is **at least 20g lighter** than any other solution in the world!



SIMPLICITY

Designed to be **reused several times**, without the need of spare components.

SAFETY

- ✓ Intrinsic safety¹ + Trip free² protection
- ✓ Excellent resistance to mechanical stress and high currents

¹ **Intrinsic safety:** in the extreme case of a blocked mechanism or glued contacts, a fuse will ensure that the electric circuit is opened.

² **Trip free:** even if the pushbutton is maintained in the closed position, the opening of the contacts is ensured in the event of a current surge or short-circuit.

RATINGS FROM 0.5 A TO 30 A

VG 95345 CROUZET OFFER

VG 95345 TEIL 6 SINGLE POLE



Auxiliary Contact Version
Available **On Demand**

RATING	STANDARD P/N	CROUZET P/N
0.5	VG95345 T06-015	84402081
1	VG95345 T06-001	84402071
2	VG95345 T06-002	84402072
2.5	VG95345 T06-003	84402082
3	VG95345 T06-004	84402073
4	VG95345 T06-005	84402074
5	VG95345 T06-006	84402075
6	VG95345 T06-007	84402076
7.5	VG95345 T06-008	84402077
8	VG95345 T06-009	84402078
10	VG95345 T06-010	84402080
15	VG95345 T06-011	84402085
16	VG95345 T06-012	84402086
20	VG95345 T06-013	84402083
25	VG95345 T06-014	84402084
30	-----	84402079

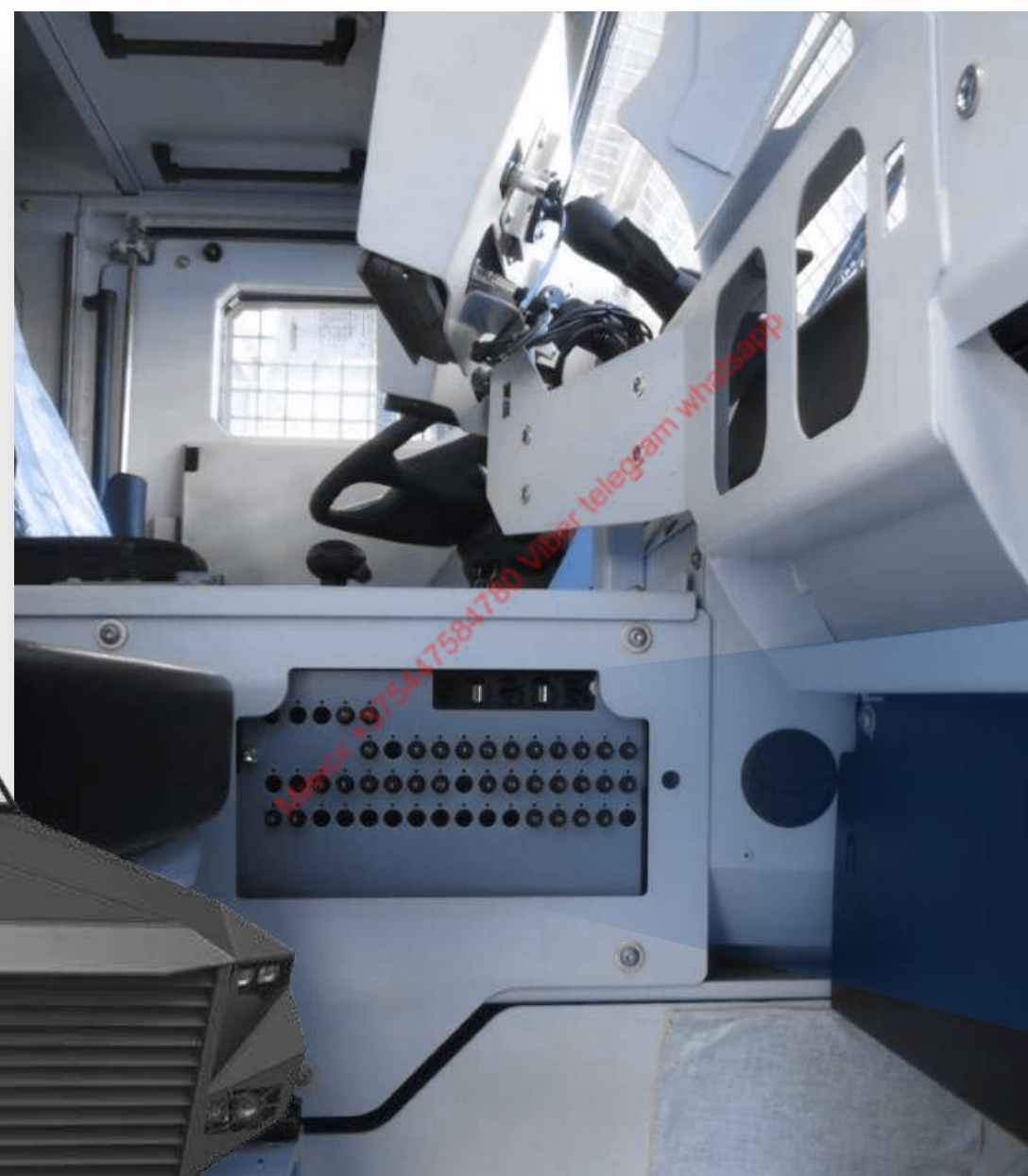
VG 95345 TEIL 11 THREE POLE



Auxiliary Contact Version
Available **On Demand**

RATING	STANDARD P/N	CROUZET P/N
1	VG95345 T11-001	84412071
2	VG95345 T11-002	84412072
2.5	VG95345 T11-003	84412082
3	VG95345 T11-004	84412073
4	VG95345 T11-005	84412074
5	VG95345 T11-006	84412075
6	VG95345 T11-007	84412076
7.5	VG95345 T11-008	84412077
8	VG95345 T11-009	84412078
10	VG95345 T11-010	84412080
15	VG95345 T11-011	84412085
16	VG95345 T11-012	84412086
20	VG95345 T11-013	84412083
25	VG95345 T11-014	84412084
30	-----	84412079

DESIGNED FOR DEFENSE APPLICATIONS



Mainly for the protection of the electrical circuits on **armoured vehicles**.

Their waterproofness (IP54) is ideal when cleaning inside the vehicle after nuclear exposition.





***THANK YOU FOR YOUR
ATTENTION!***

For more information visit: WWW.CROUZET.COM

MOTORS & GEARMOTORS

Overview



Numero +375447194780 Viber telegram whatsapp

ABOUT CROUZET

Crouzet is an independent company **manufacturing mechatronic components for demanding applications in Aerospace & Transportation, Energy, Building and Machinery Industry.**

Crouzet provides **Switches and Sensors, Electromechanical Actuators, Electrical Protection Equipment, Cockpit Controls, Automation Controllers and Relays, and Instrumentation Services.**

Since 1921, Crouzet has a heritage of close collaboration with customers in the development of products, from standard components to fully customized solutions.

Crouzet's customers and partners can rely on our teams worldwide to always meet and often exceed their expectations. Driven by innovation, our experts are focused on designing and delivering the right product for the right application.

Crouzet is your trusted partner of choice to face industrial challenges of today and tomorrow.

WORLDWIDE PRESENCE



📍 HEADQUARTERS

■ SALES OFFICES

MOTORS

CHARACTERISTICS	INDUSTRIAL BRUSH			DCmind BRUSH		DCmind BRUSHLESS		SYNCHRONOUS		STEPPER	
	SERIES	82840 82860	82800 10 50	82830 82890	89800 10 50	89830 89890	80140 180 280	80350 60 70	82510 20 30 40	82330 82340	82910 20 30 40
Nominal power (W)		0.9 / 3	9 → 33	27 → 95	15 → 35	54 → 104	66 → 150	310 → 600	0.3 → 3	0.2 / 0.4	0.5 → 5
Voltage		12 → 24 V $\overline{\text{---}}$	12 → 48 V $\overline{\text{---}}$	12 → 48 V $\overline{\text{---}}$	12 → 48 V $\overline{\text{---}}$	12 → 120 V $\overline{\text{---}}$	9 → 75 V $\overline{\text{---}}$	9 → 75 V $\overline{\text{---}}$	24 → 240 V \sim 50 → 60 Hz	24 → 240 V \sim 50 → 60 Hz	3 → 64 V $\overline{\text{---}}$
Front side (mm)		∅ 32	∅ 42	∅ 63	∅ 42	∅ 63	SQ57	SQ75	∅ 35 / 51 ∅ 57 / 65	∅ 47	∅ 35 / 51 ∅ 57 / 65
Nominal speed (rpm)		3700	3000	3000	3000	3000	3000	3000	250 → 600	600 → 720	0 → 1500
Nominal torque (mN.m)		2.2 / 7.7	41 → 100	170 / 270	50 → 110	180 / 290	125 → 550	830 → 1900	10 → 110	2.5 → 8	15 → 300
Noise level (dBA)		55	55	55	35	35	45	50	30	45	35
Service life (hrs)		2000	3000	5000	4000	5000	20000	20000	20000	10 Mon / off	20000
Certification											
Gearboxes											
Connection											
Standard											
Options											
IP			IP20		IP65*		IP54	IP65*, IP67*, IP69*	IP40	IP30	IP40

* Except front face & shaft

EMC filter	Worm	Terminal	Planetary	Parallel shafts	Interchangeable brushes	Encoder
Cable	Ball bearing	Connector	Lead	Silent	Optional regenerative energy absorber	Brake

ACCESSORIES & OPTIONS

- › Brakes from 0.25 to 4.5 N.m⁽¹⁾
- › Encoders from 1 to 1000 Pulses per Revolution⁽²⁾
- › Special connectors
- › Special output shafts (design and/or material)
- › Others : on demand

⁽¹⁾ Except Industrial Brush ∅32, Synchronous and Stepper ranges
⁽²⁾ Industrial Brush and DCmind Brush ranges only



ADAPTED PRODUCTS

To meet your expectations, Crouzet offers you custom products matching your requirements, in the following areas:

- › Control electronics
- › Motor characteristics
- › Gearboxes
- › IP65, IP67, IP69
- › EtherCAT



CONTROL ELECTRONICS

CHARACTERISTICS	INTEGRATED			EXTERNAL		
	SERIES	TNi21	SMi21	SMi22	BDE 30	BDE 40
Compatible models		SQ57		SQ75	SQ57	
Speed-torque		•	•	•	•	•
Position (P/R)			4096	4096		
Programming		DCmind Soft & DCmind Soft + CANopen		DCmind Soft + CANopen	PWM or 0 → 10 V $\overline{\text{---}}$	
Communication bus		Optional		Standard		
Voltage		10 → 36 V $\overline{\text{---}}$	9 → 75 V $\overline{\text{---}}$	9 → 75 V $\overline{\text{---}}$	18 → 36 V $\overline{\text{---}}$	10 → 36 V $\overline{\text{---}}$
Maximum current (A)		17	17	75	10	14
Adaptations		Programs: Custom firmware as per customer specifications				

GEARBOXES

CHARACTERISTICS	PARALLEL SHAFTS	PLANETARY	WORM
	11 models	7 models	2 models
Torque (N.m)	0.5 → 6	0.8 → 120	10 → 20
Power (W)	0.2 → 50	8 → 600	25 → 600
Service life (Mr*)	1 → 10	50	50
Ratios	4 → 1036800	4 → 308	5 → 100
Options	Stainless steel shafts, pulleys, pinions, special bearings, etc...		

* Million revolutions



100+ years of customization, adaptation & co-design expertise at your service

DESIGN LAB

To meet market expectations and provide customers with the right solutions within the shortest timeframes, Crouzet has structured all company processes around the different types of product: standard products, adapted products or products specially developed for a customer. Introducing the adaptation wheel...

4

SPECIAL PRODUCTS

When the adaptation is no longer suitable, we focus our design, manufacturing and qualification expertise on developing a new product designed to meet your requirements.

1

STANDARD PRODUCTS

We offer a full range of motors and geared motors, including AC synchronous, brush and brushless DC and stepper motors. Our products are available immediately so you can quickly implement your projects.

3

ADAPTED PRODUCTS

All projects are different, so we adapt the performance and functionality of each product to your requirements, ensuring the success of your most complex applications.

2

PRODUCTS WITH ADDED VALUE

All our standard products can be complemented by factory-installed extras, accessories or programs including connectors, special contacts, software etc., to assist integration into your equipment, simplify your logistics and maximize the reliability of your installations.

ACTUAL EXAMPLES

Brushless motor with integrated electronics for Access Control in public transportation applications:

- › Autonomous torque, speed and position control
- › Reinforced gearbox
- › Specific firmware with integrated emergency mode
- › CANopen communication
- › High resistance against vandalism



Gear pump equipped with a brushless motor:

- › Rotor with leak tight seal
- › Application-specific electronics
- › Shortened motor



Releasable linear actuator for gas boilers equipped with a stepper motor:

- › Gas flow adjustment
- › Automatic closing in the event of a power failure
- › Gas-tightness measured on the production line



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MICROSWITCHES SELECTION GUIDE

SNAP-ACTION SWITCHES

		SUB-SUBMINIATURE				SUBMINIATURE					MINIATURE								SPECIAL							
Approx. body size (mm)		15x8x5	Ø 8x8	13x10x5	13x10x5	20x10x6	20x10x6	20x10x6	20x10x6	Ø 11x15	28x16x10	28x16x10	28x16x10	28x16x10	29x16x10	31x23x10	33x16x10	24x31x9	30x18x12	50x30x12	32x19x13	40x19x13	49x10x20	43x18x17		
SERIES		V5S 8320	83228 83229	83141	V5D 83194	V4 83170	V4D 8327	V4S 8318	83132 83133 83134	83151 83560	V3 83161	V3D 8326	83160	831607 832607	831606 SP3697	V3S 83169	V3DS 8329	83139	83137	PBX 8324	83106 83109 83111/112	83154	83123	83118 83120		
TYPE		Sealed	Cylindric adjustable	High accuracy	Standard	Premium	Standard	Sealed	Double break	Hermetic Inox housing	Premium	Standard	Heavy duty	Positive break	High DC rating	Sealed	Sealed Compact	Sealed Double break	Ultra sensitive Rotary	Sealed Separated circuits	Double break	High DC rating	Sealed Rubber housing	High accuracy Sensitive		
ELECTRICAL	Max. ratings	@ 250 V ~ @ 24V ~ @ 250 V ~	4 A 4 A 0.2 A	5 A 5 A 0.2 A	5 A 5 A 0.15 A	5 A 5 A 0.15 A	12 A 10 A 0.3 A	12 A 10 A 0.2 A	10 A 10 A 0.3 A	6 A 6 A 0.5 A	5 A 7 A 0.3 A	16 A 16 A 0.8 A	25 A 16 A 0.2 A	16 A 16 A 0.8 A	6 A 6 A 0.5 A	16 A 16 A 5 A	8 A 8 A 0.3 A	10 A 10 A 0.5 A	6 A 6 A 0.5 A	6 A 6 A 0.4 A	10 A 10 A 0.8 A	16 A 16 A 0.6 A	16 A 16 A 5 A	10 A 10 A 0.3 A	10 A 10 A 0.3 A	
	Dual-current version		1 mA → 4 A	1 mA → 5 A	1 mA → 1 A	1 mA → 5 A	1 mA → 5 A	1 → 20 mA	1 mA → 6 A	1 mA → 5 A	1 mA → 1 A	1 mA → 5 A	1 → 20 mA	**	10 mA → 6 A		1 mA → 5 A	1 mA → 3 A	1 mA → 5 A	1 → 100 mA	1 mA → 10 A	10 mA → 5 A				
	Low current version																									
	Circuit diagram	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form Za	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form C	Form Za	Form Za	Form C	Form C
	Contact configuration (for 1 pole changeover/SPDT)																									
ENVIRONMENT	SPST-NC / SPST-NO versions	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	Multipole version																				**	2 → 6 poles (8332)	2 → 6 poles (8332)			
	Bistable version (maintained action)																				**	Push/Pull	Push/Pull			
	Positive opening operation																									
	Electrical disconnection	μ	μ	μ	μ	μ	μ	μ	μ	μ	μ or Full	μ	μ or Full	μ	Full	μ	μ	μ	μ	μ	Full	μ	μ	μ	μ	μ
	Insulation voltage	250 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V	400 V	250 V	400 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V	400 V	250 V	250 V	250 V	250 V	250 V
	Protection against electric shock (without additional protection)	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I	Class I
	Degree of protection	IP67 IP69	IP40	IP40	IP40	IP40	IP40	IP67 IP69	IP40	Hermetic Qk test 10 ⁻³ Pa.cm ³ /s	IP40	IP40	IP40	IP40	IP40	IP40	IP67 IP69	IP67	IP66 IP67	IP40	IP40 IP65 IP67	IP40	IP40	IP40	IP66 IP67 IP69	IP40
	Operating temperature	-40 °C +90 °C	-55 °C +140 °C	-55 °C +150 °C	-40 °C +110 °C	-40 °C +150 °C	-25 °C +150 °C	-40 °C +125 °C	-40 °C +150 °C	-55 °C +250 °C	-60 °C +150 °C	-50 °C +200 °C	-40 °C +150 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +105 °C	-40 °C +85 °C	-40 °C +105 °C	-20 °C +125 °C	-50 °C +85 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +85 °C	-40 °C +125 °C	
	Explosive atmospheres																									
Irradiated environment																										
MECHANICAL	Max. Operating Force	1.5 N	1.7 N	2 N	1.4 N	0.6 → 2.2 N	1.5 N	2.5 N	1.6 N ; 2.6 N	5 → 47 N	0.15 → 5 N	0.25 → 4 N	1 → 5 N	4 N	5 N	4.5 N	0.5 → 4.5 N	3 N ; 4.5 N	1.2 → 2 mN.m	4.5 N ; 6.5 N	0.45 → 7.5 N	4 N	7.5 N	0.35 → 2.7 N		
	Min. Overtravel	2 mm	0.15; 1.5 mm	0.1 mm	0.25 mm	0.5 mm	0.5 mm	0.6 mm	0.27 mm	0.08 mm	1.2 mm	1.1 mm	1.3 mm	1.3 mm	1 mm	1 mm	1 mm	0.25 mm	12°	3 mm	0.7 mm	0.7 mm	0.25 mm	0.2 → 0.8 mm		
	Max. Differential Travel	0.06 mm ; 0.10 mm	0.12 mm ; 0.19 mm	0.06 mm	0.13 mm	0.08 mm ; 0.15 mm	0.15 mm	0.10 mm ; 0.15 mm	0.45 mm	0.05 mm	0.35 mm ; 0.8 mm	0.4 mm	0.3 mm ; 0.7 mm	0.3 mm	0.7 mm	0.7 mm	0.07 mm ; 0.35 mm	0.5 mm	0.45 mm	14°	1.3 mm	0.7 mm	0.9 mm	0.2 mm	0.09 mm ; 0.7 mm	
	Mechanical life (cycles)	1 M	2 M	2 M	10 M	30 M	0.1 M	2 M	10 M	0.2 M	50 M	1 M	10 M	10 M	1 M	5 M	1 M	10 M	10 M	10 M	10 M	10 M	2 M	5 M		
	Min. actuating speed	0.001 mm/s	0.01 mm/s	0.01 mm/s	0.1 mm/s	0.001 mm/s	0.1 mm/s	0.01 mm/s	0.01 mm/s	0.01 mm/s	0.001 mm/s	0.1 → 3mm/s	0.1 mm/s	0.1 mm/s	0.1 mm/s	0.001 mm/s	0.1 → 3mm/s	0.01 mm/s	1°/s	0.1 mm/s	0.01 mm/s	0.01 mm/s	0.03 mm/s	0.01 mm/s		
	Operating device	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Plunger	Inox wire	Plunger	Plunger	Plunger	Plunger	Plunger		
	Lateral actuation on plunger	✓	Ball (opt)			✓	✓	✓	Ball (opt)	✓	✓	✓	✓	✓	✓	**	**				Ball (opt)	Ball (opt)				
	Auxiliary levers (flat, bended, roller...)	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	Telescopic plunger (option)		✓			✓	✓		See 8354	See 8377	✓	**	✓			(SP4978/4988)		(SP4257)			See 83513/522	See 83513/522	See 8373	✓		
	Fixing means	Plain holes	Ø 3 (opt)		Ø 2.1	Ø 2.25	Ø 2.2	Ø 2.2 ; 2.35	Ø 2.2	See 8354	See 8377	Ø 3.1	Ø 3.1	Ø 3.2	Ø 3.2	Ø 3.2	Ø 3.1	Ø 3.1	Ø 2.2 ; Ø 3.1	Ø 3.2	Ø 4.1 M3	Ø 2.6 M3	Ø 2.6	Ø 3.2	Ø 4.2	
		Tapped holes																								
		Pins	Ø 2.2				Ø 2.6	Ø 2.6	Ø 2.6	See 8354	See 8377	M10 ; M12	**	M10 ; M12	M10 x 0.75	M10 ; M12	See 83581		M10 x 0.75			(83537**)	(83537**)	See 8373	✓	
	Threaded barrel		M5 x 0.5; M8 x 0.7			M6 x 0.75	M6 x 0.75		See 8354	See 8377																
	Others		Flush mount					Snap-in**													Snap-in					
Connections	Solder	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Quick-connect	✓			**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Printed board	✓			**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Screw	✓			**	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Wires	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	Cable					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
Approvals	ENEC/CE/IECEx	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	
	UL	UL	UL	**	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	UL	**	UL	UL	UL	UL	UL	UL	UL	UL	UL	
	CCC	CCC	**	**	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	CCC	
	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC	EAC		



* Pending ** Consult us
 The features presented in this selection guide represent the extent of performance of each Microswitch Series. Not all combinations of characteristics are feasible at an individual product. Please refer to relevant product sheet or consult our customer service. For more information see also the «Basic technical concepts».
 Note: data contained in product sheets dated 2016 and before may differ from the features shown in this selection guide. Update is in progress. Please contact us for confirmation.

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