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Type Class Groups

The following table provides a summary of the product Type Class Group Codes employed for products manufactured and distributed by RMS.

Idec Izumi products

0 All product types

Relay circuits

1A Alarms
1B Circuit breaker reclose
1F Flashers
1L Liquid level
1M Multiple relay racks
1S Optical arc monitors and sensors
1T Supervisory relays
1TM Supervisory relays
1X Miniature supervisory relays

Measuring relays

2C Current
2D Directional current
2H Frequency
2HS 6R based high speed trip relays
2HSA 20 contact high speed trip Alpha relays
2HSM 6R MATRIX based tripping relays
2L Earth leakage
2P Phase
2SY Synchronising check
2T Time
2TD Temperate
2V Voltage

Auxiliary relays

3A Auxiliary functions
3Y Interposing relays
3Z Mixture of types

Miscellaneous

4A Adaptor systems
4D Display modules
4M Mechanical products
4O Other products
4P Power supplies

Distributed Products

5N Nieaf Smitt
5R Reyrolle
5S Mors Smitt Signalling
5T Thytronic

6R MATRIX Relays

6RA 6R based auxiliary relays
6RJ 6R based trip relays
6RM 6R base auxiliary relays
6RX 6R based supervision relays

ABM Active burden modules

ALPHA Series

AR Auxiliary relays
TR Trip relays
PR Pilot wire
XR Supervisory relays

DELTA Series

ARD Auxiliary relays
TRD Trip relays
XRD Supervisory relays

Product Ordering Codes

Product Order Codes are used to uniquely describe product functionality and may be generated by the customer to define the specific product version required.

A Type Class is made up of a Type Group followed by a sequence number.

A standard Order Code is made up of a Type Class followed by a number of Order Codes. These combine to create a unique Product Ordering Code as per the following example:

2C138 -	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
Auxiliary Supply Range	A			20 - 70V DC
	B			40 - 300V DC and 40 - 275V AC
Ct Input Rating & Sensitivity	A			1A 0.5% – 15.5%
	B			5A 0.5% – 15.5%
	C			1A 0.1% – 3.1%
	D			5A 0.1% – 3.1%
Trip Flag		A		Red LED non-volatile trip indication (Standard)
		B		Magnetic disc trip flag
Options			-	No options required

Order Code Generation

Generate the required Product Order Code as follows:
e.g. 2C138-BCA

Each Technical Bulletin includes a section titled Ordering Information which provides the details required for a customer to generate a unique Product Order Code.

This code should be advised when seeking price quotations & when placing orders. The front label of the product is designated with the Ordering Code and K Number. Invoices & delivery dockets are also clearly marked with the Ordering Code to allow customers to easily check that they have received the correct item against their order.

Products with Non Standard Parameters are identified with a suffix code: e.g. 2C138-BCA-S01

Product Revisions

Product Revisions are used to describe the Production build for each specific Product Order Code.

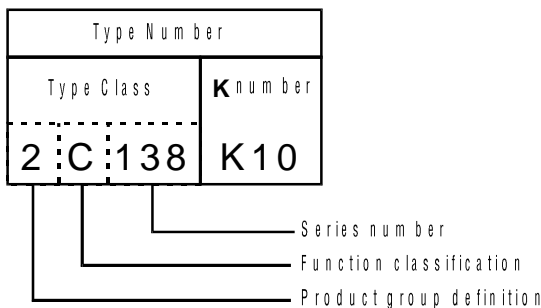
Components or methods used to build a product can change and in some circumstances necessitate a new part revision to be allocated to describe the revised production build.

Product functionality as described by the Order Code in the Technical Bulletin does not change across different Product Revisions.

Type Numbers

Type Numbers are used to describe the engineering design implementation. The Type Class reference is retained while the Class Order Codes are replaced with a K number as per the following example:

2C138	Order Code	K Number
Standard Code	-BCA	K10



As product designs evolve, a new K number may be allocated to describe a different engineering design implementation for the same Product Order Code.

Product functionality as described by its unique Order Code in the Technical Bulletin does not change across different K numbers.

Custom Built Relays

RMS is expert in providing custom relay builds to suit specific end user requirements. Refer to Part A4 for more details on this subject.

Special Product Order Codes are created using the following rules:

Special Order Code

Where an Order Code position exists for a functional attribute, but none of the standard options are suitable, it may be possible to specify a special requirement.

In this instance a new code is generated with an S prefix followed by a numeric:

Example 1

Standard Order Code: 2C138-BCA
 Standard options: A or B
 Special option: S1
 Special Order Code: 2C138-S1-BCA
 Type Number: 2C138K11

Non-Standard Parameters Code

Where a special requirement is needed but falls outside the standard Type Class Order Codes, it may still be possible to specify.

In this instance a standard Order Code is generated and an S code suffix is added to describe the non-standard characteristic(s):

Example 2

Standard Order Code: 2C138-BCA
 Non-standard parameters: S01
 Special Order Code: 2C138-BCA-S01
 Type Number: 2C138K12

The special attributes of the K12 version are described in the relevant Product Test Manual (PTM).

This system provides a traceable means to ensure customers obtain the same specification product for future orders even when the original relay may have been specially built only for them.

Phase

2P48	Potential selecting relay	SECTION 1
2P49	Phase failure relay	
2P740	Phase fail, sequence, unbalance, under volts	

Timers

2T105	Digital setting time delay	SECTION 2
2T649	Refer 6R MATRIX system	
2T749	Analogue setting time delay	
2T751	Analogue setting true time delay off	
2T770	Recycling timer	

Voltage

2V63	Single phase AC & DC voltage monitoring	SECTION 3
2V67-S	Three phase definite time under/over voltage	
2V76	Single phase voltage / neutral	
2V730	AC voltage sensing	
2V731	DC voltage sensing	

Current

2C65	3 phase definite time over current	SECTION 4
2C74	Instantaneous over current relay	
2C81	DC current sensing	
2C138	Sensitive earth fault	
2C139	Shaft Overcurrent protection	
2C720	Single phase current sensing	

Arc Flash

1S20	2 zone 3 sensor arc fault monitor	SECTION 5
1S23	1 zone 1 or 2 sensor ARC Module	
1S24	Arc Fault Monitor - IEC61850 - 16 sensors	
1S25	4 zone 8 sensor arc fault monitor	
1S26	4 zone 8 sensor arc fault with current check	
1S30	Arc fault sensor – 1 or 2 optical detectors	

Pilot Wire Supervision & Intertripping

3A20	Pilot wire send / receive relays	SECTION 6
3A300	DC intertrip system	

Frequency

2H34-S	Under frequency sensing – 4 stage	SECTION 7
2H750/ 2H760	Under/over frequency sensing (45-50/55-60Hz)	

High Impedance Differential Protection

1M123	High Impedance BUS protection rack	SECTION 8
1M124	Numeric high Impedance BUS protection rack	
2C73	High impedance differential relay	
2V68	Busbar CT supervision & shorting relay	
2V73	High impedance differential relay	
2V75	Three phase metrosil module	
6RA20	CT Shorting relay	

Voltage Regulation & Control

2V164-S	Digital tap change control	SECTION 9
2V165-S	Parallel transformer control	
1M122	Parallel transformer control system	
2V200	Tap position indicator V to F Sender Unit	
4D200	TPI module	

Test Blocks & Enclosures

2RMLB	Multi-finger test plug	SECTION 10
4M300/4M320	Test block system	
M Series	Modular rack mount protection relay cases	
Y Series	Surface mount plug in relay cases	

Auto Reclose & Synchronising Check

1B230	Multi shot auto reclose	SECTION 11
2SY212-S	Synchronism check	

Auxiliary, Trip & Supervision

ABM	Active burden module	SECTION 12
Alpha	Auxiliary, tripping & supervision	
Delta	Auxiliary, tripping & supervision	
1A54	4, 8 & 16 point alarm panels	
1X10 / 1X20	Fuse supervision / trip circuit supervision	
1X30	Trip circuit supervision (CB open & closed)	
1X50	CB trip & reclose module	
6RMATRIX	Modular auxiliary, tripping & supervision	
6RMATRIX-Pre	6R MATRIX pre-defined models	
6RJ	High speed tripping relays	
6RA	Auxiliary relays	
6RX	Supervision relays	
6RM QUAD	Four element flag relays	



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Relay Monitoring Systems Pty Ltd design, manufacture and market a wide range of electrical protection and control products for application on high voltage power systems. The company's depth of manufacturing and engineering expertise is backed up by many years of experience since the formation of its predecessor, Relays Pty Ltd (RPL), in 1955. This experience combined with a broad base of field proven product types enables RMS to service specific customer needs by producing relays on demand and with typically short lead times.

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ISO9001 Quality Accreditation

RMS holds NCSI (NCS International Pty Limited) registration number 6869 for the certification of a quality system to AS/NZS ISO9001:2008.

Due to RMS continuous product improvement policy the information contained in this document is subject to change without prior notice.

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