

Control Station and Control Panel: Control Box, ECT series



Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

The ECT control boxes are designed for use

- in hazardous areas, zone 1, 2 and zone 21, 22.
- installation in petroleum refineries, chemical plants, storage areas where hazardous substances are handled.
- instrument box with circular or rectangular window.
- containing analogue and digital measuring instruments.
- indicating the electrical function performed.

The circuit breakers are suitable for

- short circuit and overcurrent protection of service entrance, feeder, branch circuit, lighting or motor circuit and serve as a disconnecting mean.

The motor starters are suitable for

- single speed, non-reversing starting and stopping of AC squirrel cage induction motors.
- direct-on-line or star-delta starting method.

The circuit breaker panelboards are suitable for

- control of branch circuit distribution such as lighting circuits, receptacles, pumps or motors.

Specification

- Body, cover : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (Grey)
- Lid screws : Stainless steel
- Sealing gasket : Silicone

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Conforming to ATEX	Ex d IIB T6/T5 Gb	Ex tb IIIC T85°C/T100°C Db IP66
Symbol of Protection ATEX	Ex d IIB T6/T5 Gb	Ex tb IIIC T85°C/T100°C Db IP66
Compliance with	EC Directive for "Apparatus and protective systems for use in explosive atmospheres" (2014/34/EU)	
Standards	EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-31:2014	
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
Entries	NPT or Metric threads	
Mounting	Wall type	

The enclosure with panel mounted operating devices



Circuit breaker box



Motor starter Box



Circuit breaker panelboard



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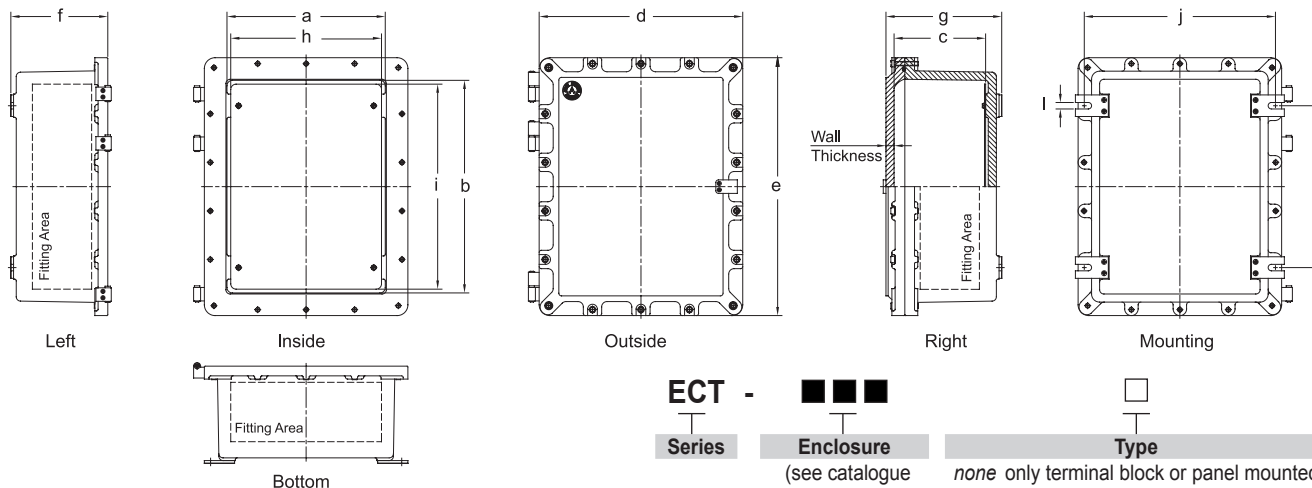


A QUALITY PRODUCT

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Dimension



Cat. No.		Dimension in mm.											Wall Thickness	Volume (dm ³)	Empty Weight (kgs.)	
		Inside			Outside				Equipment Plate		Mounting					
		a	b	c	d	e	f	g	h	i	j	k				l
ECT 684	□	96	151	86	160	215	88	113	90	145	130	100	7.5	7	1.25	3.75
ECT 685	□	97	151	108	160	215	113	138	90	145	130	100	7.5	7	1.58	4.00
ECT 6103	□	105	210	44	155	264	64	82	97	206	-	-	-	8	0.97	3.82
ECT 885	□	134	134	103	205	205	101	136	115	115	180	100	10	10	1.85	5.45
ECT 886	□	134	134	122	205	205	119	154	115	115	180	100	10	10	2.19	5.66
ECT 8114	□	136	208	80	210	285	84	120	125	205	190	140	12	13	2.26	6.75
ECT 8126	□	130	235	110	205	310	115	150	115	220	190	160	12	13	3.36	9.25
ECT 8186	□	130	388	114	207	465	118	155	120	375	185	300	12	13	5.75	13.45
ECT 8187	□	130	388	164	207	465	168	205	120	375	185	300	12	13	8.27	14.15
ECT 9156	□	158	308	114	237	387	120	155	150	295	210	230	12	13	5.55	11.00
ECT 9157	□	158	309	164	237	387	170	205	150	295	210	230	12	13	8.01	13.40
ECT 9206	□	153	431	119	230	508	121	160	140	420	210	350	12	13	7.85	14.01
ECT 9207	□	153	431	169	230	508	171	210	140	420	210	350	12	13	11.14	16.80
ECT 101610	□	170	320	216	246	396	215	260	155	295	235	240	12	15	11.75	15.88
ECT 11217	□	203	445	164	285	525	173	210	195	435	260	350	12	15	14.81	22.33
ECT 11218	□	203	445	173	285	525	183	220	195	435	260	350	12	15	15.63	26.10
ECT 12126	□	240	240	106	315	315	115	150	235	235	295	170	12	15	6.11	13.01
ECT 12127	□	240	240	146	315	315	155	190	235	235	295	170	12	15	8.41	15.85
ECT 15156	□	298	298	110	380	380	117	156	280	280	360	240	12	15	9.77	19.55
ECT 151510	□	298	298	219	380	380	225	264	280	280	360	240	12	15	19.45	26.61
ECT 15197	□	294	394	163	378	478	173	208	280	380	355	300	12	15	18.88	31.83
ECT 15198	□	294	394	170	378	478	180	215	280	380	355	300	12	15	19.69	32.01
ECT 162810	□	318	615	224	401	698	223	270	300	595	380	450	12	15	43.81	35.75
ECT 18188	□	370	370	178	460	460	178	221	355	355	435	300	12	15	24.37	30.55
ECT 20208	□	411	411	163	505	505	171	216	395	395	505	290	15	18	27.53	45.05
ECT 202410	□	422	522	204	505	605	214	261	405	510	505	450	15	18	44.94	51.05
ECT 20329	□	418	707	200	510	800	211	255	405	690	510	335	15	20	59.11	73.88
ECT 203611	□	407	800	224	520	925	248	291	405	800	515	340	15	25	72.93	107.50
ECT 284411	□	586	986	225	710	1110	227	286	580	950	700	400	15	25	130.00	164.74

⌀ 6 Mounting feet.

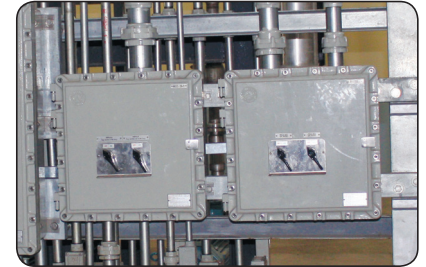
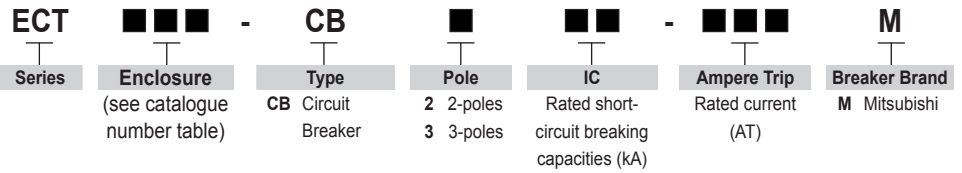
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Catalogue Number



Molded-Case Circuit Breaker "Mitsubishi"						Molded-Case Circuit Breaker "Mitsubishi"							
Model	Frame Size (AF)	Rated Current (AT)	Pole	Rated short-circuit breaking capacities (kA)	Cat. No.	Model	Frame Size (AF)	Rated Current (AT)	Pole	Rated short-circuit breaking capacities (kA)	Cat. No.		
NF32-SV	32AF	3	2	7.5kA. at 230V.	ECT8126-CB27X5-003M	NF125-SV	125AF	16	2	50kA. at 230V.	ECT9157-CB250-016M		
		4			ECT8126-CB27X5-004M			20			ECT9157-CB250-020M		
		6			ECT8126-CB27X5-006M			32			ECT9157-CB250-032M		
		10			ECT8126-CB27X5-010M			40			ECT9157-CB250-040M		
		16			ECT8126-CB27X5-016M			50			ECT9157-CB250-050M		
		20			ECT8126-CB27X5-020M			63			ECT9157-CB250-063M		
	25	ECT8126-CB27X5-025M	80	ECT9207-CB250-080M									
	32	ECT8126-CB27X5-032M	100	ECT9207-CB250-100M									
	NF63-HV	63AF	3	3	5kA. at 400V.		ECT8126-CB305-003M	NF250-SV	250AF	125	3	36kA. at 400V.	ECT9207-CB250-125M
			4				ECT8126-CB305-004M			16			ECT9157-CB330-016M
			6				ECT8126-CB305-006M			20			ECT9157-CB330-020M
			10				ECT8126-CB305-010M			32			ECT9157-CB330-032M
16			ECT8126-CB305-016M			40	ECT9157-CB330-040M						
20			ECT9157-CB305-020M			50	ECT9157-CB330-050M						
25		ECT9157-CB305-025M	63	ECT9157-CB330-063M									
32		ECT9157-CB305-032M	80	ECT11218-CB330-080M									
NF400-SW		400AF	10	2	25kA. at 230V.	ECT8126-CB225-010M	NF630-SW		630AF	150	3	50kA. at 400V.	ECT11218-CB330-100M
			16			ECT8126-CB225-016M				125			ECT11218-CB330-125M
			20			ECT8126-CB225-020M				175			ECT162810-CB336-150M
			25			ECT8126-CB225-025M				200			ECT162810-CB336-175M
	32		ECT8126-CB225-032M			225		ECT162810-CB336-200M					
	40		ECT8126-CB225-040M			250		ECT162810-CB336-225M					
50	ECT9157-CB225-050M	250	ECT162810-CB336-250M										
63	ECT9157-CB225-063M	250	ECT20329-CB345-250M										
NF630-SW	630AF	10	3	10kA. at 400V.	ECT8126-CB310-010M	NF400-SW	400AF	300	3	45kA. at 400V.	ECT20329-CB345-300M		
		16			ECT8126-CB310-016M			350			ECT20329-CB345-350M		
		20			ECT9157-CB310-020M			400			ECT20329-CB345-400M		
		25			ECT9157-CB310-025M			500			ECT203611-CB350-500M		
		32			ECT9157-CB310-032M			600			ECT203611-CB350-600M		
		40			ECT9157-CB310-040M			630			ECT203611-CB350-630M		
50	ECT9157-CB310-050M												
63	ECT9157-CB310-063M												

Accessories

- Internal accessories of circuit breaker
 - **Alarm switch** (Indicates that the breaker has tripped.)
 - **Auxiliary switch** (Indicates whether the breaker is ON or OFF)
 - **Shunt trip** (Trip the breaker electrically by Mushroom-head push button.)
 - **Undervoltage trip** (Trip the breaker automatically when the voltage drops.)