

Control Station and Control Panel: Control Unit, DCU series



Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Application

The DCU control units are used for local or remote control of machine. They can be built-in with indicating lamps, push buttons, switches, ammeters, or voltmeters. They are suitable for Zone 1, 2 and Zone 21, 22 hazardous areas.

Specification

Body and cover : Marine grade copper-free aluminium alloy with polyester powder coated, RAL 7032 (grey)

Sealing (O-ring) : Silicone

Lid screws : Stainless steel

Hinge : Stainless steel

Technical Data

Hazardous Area	Gas	Dust
Zones	1 & 2	21 & 22
Conforming to ATEX	II 2G	II 2D
Symbol of Protection ATEX	Ex d IIB T6 Gb	Ex tb IIIB T85°C IP66
Symbol of Protection IECEx		
Ambient Temperature	-20°C to +55°C	
Index of Protection	IP66	
ATEX Certificate	Presafe 16 ATEX 8036 X	
Compliance with	Equipment and protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU	
Standards	EN 60079-0:2012+A11:2013, EN 60079-1:2007, EN 60079-31:2014	
IECEx Certificate	IECEx PRE 16.0025 X	
Compliance with	IECEx Scheme	
Standards	IEC 60079-0:2011, IEC 60079-1:2007-04, IEC 60079-31:2008	
Entries	Ø3/4" to Ø1" NPT or M20x1.5 to M32x1.5	
Mounting	Wall type	
Rated Voltage	Max. 400V.ac 50/60Hz.	

DCU-11-TN1



DCU-1C116-TN1



DCU-22-TN2



DCU-2C125-TN2



DCU-33-TN2



DCU-44-TN2



DCU-5C232-CN2



DCU-68-TN2



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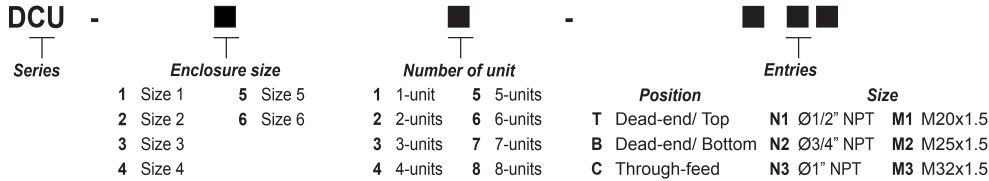


Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Catalogue Number Logic

Control Unit with Panel Mounted Operating Devices



Ordering Requirements

1-unit (size 1)

1x Panel Mounted Operating Devices (selection)				
1	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
Ø1/2" NPT	DCU-11-TN1	DCU-11-BN1	DCU-11-CN1	
Ø3/4" NPT	DCU-11-TN2	DCU-11-BN2	DCU-11-CN2	
M20x1.5	DCU-11-TM1	DCU-11-BM1	DCU-11-CM1	
M25x1.5	DCU-11-TM2	DCU-11-BM2	DCU-11-CM2	
Empty weight : 2.15 kgs.				

2-units (size 2)

2x Panel Mounted Operating Devices (selection)				
1 2	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
Ø1/2" NPT	DCU-22-TN1	DCU-22-BN1	DCU-22-CN1	
Ø3/4" NPT	DCU-22-TN2	DCU-22-BN2	DCU-22-CN2	
M20x1.5	DCU-22-TM1	DCU-22-BM1	DCU-22-CM1	
M25x1.5	DCU-22-TM2	DCU-22-BM2	DCU-22-CM2	
Empty weight : 2.30 kgs.				

3-units (size 3)

3x Panel Mounted Operating Devices (selection)				
1 2 3	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
Ø1/2" NPT	DCU-33-TN1	DCU-33-BN1	DCU-33-CN1	
Ø3/4" NPT	DCU-33-TN2	DCU-33-BN2	DCU-33-CN2	
M20x1.5	DCU-33-TM1	DCU-33-BM1	DCU-33-CM1	
M25x1.5	DCU-33-TM2	DCU-33-BM2	DCU-33-CM2	
Empty weight : 3.05 kgs.				

4-units (size 4)

4x Panel Mounted Operating Devices (selection)				
1 3 2 4	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) Ø1/2" NPT	DCU-44-TN1	DCU-44-BN1	DCU-44-CN1	
(2x) Ø3/4" NPT	DCU-44-TN2	DCU-44-BN2	DCU-44-CN2	
(2x) M20x1.5	DCU-44-TM1	DCU-44-BM1	DCU-44-CM1	
(2x) M25x1.5	DCU-44-TM2	DCU-44-BM2	DCU-44-CM2	
Empty weight : 3.50 kgs.				

6-units (size 5)

6x Panel Mounted Operating Devices (selection)				
1 4 2 5 3 6	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) Ø1/2" NPT	DCU-56-TN1	DCU-56-BN1	DCU-56-CN1	
(2x) Ø3/4" NPT	DCU-56-TN2	DCU-56-BN2	DCU-56-CN2	
(2x) M20x1.5	DCU-56-TM1	DCU-56-BM1	DCU-56-CM1	
(2x) M25x1.5	DCU-56-TM2	DCU-56-BM2	DCU-56-CM2	
Empty weight : 4.20 kgs.				

8-units (size 6)

8x Panel Mounted Operating Devices (selection)				
1 5 2 6 3 7 4 8	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) Ø3/4" NPT	DCU-68-TN2	DCU-68-BN2	DCU-68-CN2	
(1x) Ø1" NPT	DCU-68-TN3	DCU-68-BN3	DCU-68-CN3	
(2x) M25x1.5	DCU-68-TM2	DCU-68-BM2	DCU-68-CM2	
(1x) M32x1.5	DCU-68-TM3	DCU-68-BM3	DCU-68-CM3	
Empty weight : 8.25 kgs.				



If require control unit with terminal blocks and wiring, please contact us.

Control Station and Control Panel: Control Unit, DCU series

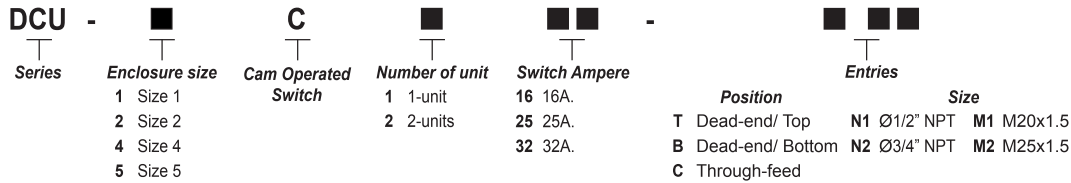


Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Catalogue Number Logic

Control Unit with Cam Operated Switch



Ordering Requirements

1-unit (size 1)

	Cam Operated Switch, 16A. (AC1) 2-steps Double poles/ 220V.ac 50Hz., Cat. No. DCM-A216	Cat. No.		
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
Ø1/2" NPT	DCU-1C116-TN1	DCU-1C116-BN1	DCU-1C116-CN1	
Ø3/4" NPT	DCU-1C116-TN2	DCU-1C116-BN2	DCU-1C116-CN2	
M20x1.5	DCU-1C116-TM1	DCU-1C116-BM1	DCU-1C116-CM1	
M25x1.5	DCU-1C116-TM2	DCU-1C116-BM2	DCU-1C116-CM2	
Empty weight : 2.15 kgs.				

1-unit (size 2)

	Cam Operated Switch, 25A. (AC1) 2-steps Double poles/ 220V.ac 50Hz., Cat. No. DCM-A225	Cat. No.		
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
Ø1/2" NPT	DCU-2C125-TN1	DCU-2C125-BN1	DCU-2C125-CN1	
Ø3/4" NPT	DCU-2C125-TN2	DCU-2C125-BN2	DCU-2C125-CN2	
M20x1.5	DCU-2C125-TM1	DCU-2C125-BM1	DCU-2C125-CM1	
M25x1.5	DCU-2C125-TM2	DCU-2C125-BM2	DCU-2C125-CM2	
Empty weight : 2.30 kgs.				

1-unit (size 4)

	Cam Operated Switch, 32A. (AC1) 2-steps Double poles/ 220V.ac 50Hz., Cat. No. DCM-A232	Cat. No.		
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) Ø1/2" NPT	DCU-4C132-TN1	DCU-4C132-BN1	DCU-4C132-CN1	
(2x) Ø3/4" NPT	DCU-4C132-TN2	DCU-4C132-BN2	DCU-4C132-CN2	
(2x) M20x1.5	DCU-4C132-TM1	DCU-4C132-BM1	DCU-4C132-CM1	
(2x) M25x1.5	DCU-4C132-TM2	DCU-4C132-BM2	DCU-4C132-CM2	
Empty weight : 3.50 kgs.				

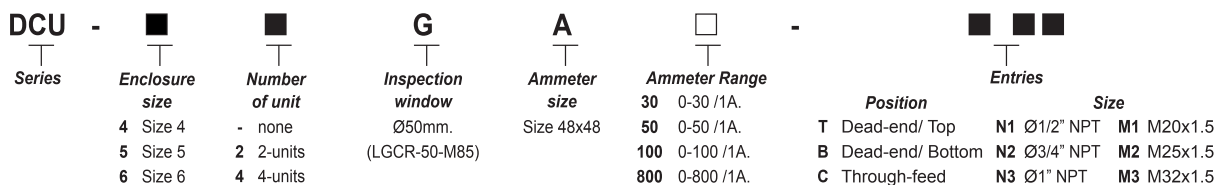
2-units (size 5)

	Cam Operated Switch, 32A. (AC1) 2-steps Double poles/ 220V.ac 50Hz., Cat. No. DCM-A232		Cam Operated Switch, 32A. (AC1) Double poles/ 220V.ac 50Hz., Cat. No. DCM-A232	Cat. No.	
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed		
(2x) Ø1/2" NPT	DCU-5C232-TN1	DCU-5C232-BN1	DCU-5C232-CN1		
(2x) Ø3/4" NPT	DCU-5C232-TN2	DCU-5C232-BN2	DCU-5C232-CN2		
(2x) M20x1.5	DCU-5C232-TM1	DCU-5C232-BM1	DCU-5C232-CM1		
(2x) M25x1.5	DCU-5C232-TM2	DCU-5C232-BM2	DCU-5C232-CM2		
Empty weight : 4.20 kgs.					



Catalogue Number Logic

Control Unit with Inspection Window & Panel Mounted Operating Devices



Ordering Requirements

1-window (size 4)

	1x Inspection Window, Ø50mm. (LGCR-50-M85)	Cat. No.		
	Ammeter size 48x48, specify ammeter range.			
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
Ø1/2" NPT	DCU-4GA□-TN1	DCU-4GA□-BN1	DCU-4GA□-CN1	
Ø3/4" NPT	DCU-4GA□-TN2	DCU-4GA□-BN2	DCU-4GA□-CN2	
M20x1.5	DCU-4GA□-TM1	DCU-4GA□-BM1	DCU-4GA□-CM1	
M25x1.5	DCU-4GA□-TM2	DCU-4GA□-BM2	DCU-4GA□-CM2	
Empty weight : 3.50 kgs.				

□ - Ammeter range, see catalogue number or specify

If require control unit with terminal blocks and wiring, please contact us.

Control Station and Control Panel: Control Unit, DCU series




Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Ordering Requirements

Control Unit with Inspection Window & Panel Mounted Operating Devices

1-window, 2-units (size 5)



1x Inspection Window, Ø50mm. (LGCR-50-M85)

A Ammeter size 48x48, specify ammeter range.

2x Panel Mounted Operating Devices (selection)

PL Pilot Light, DPL series

PB Push Button, DPB series

EM Mushroom-Head Push Button, DMPB series

SL Selector Switch, DSL series

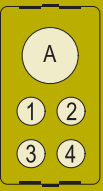
KS Key Selector Switch, DSLK series

Cat. No.

Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed
(2x) Ø1/2" NPT	DCU-52GA□-TN1	DCU-52GA□-BN1	DCU-52GA□-CN1
(2x) Ø3/4" NPT	DCU-52GA□-TN2	DCU-52GA□-BN2	DCU-52GA□-CN2
(2x) M20x1.5	DCU-52GA□-TM1	DCU-52GA□-BM1	DCU-52GA□-CM1
(2x) M25x1.5	DCU-52GA□-TM2	DCU-52GA□-BM2	DCU-52GA□-CM2

Empty weight : 4.20 kgs.

1-window, 4-units (size 6)



1x Inspection Window, Ø50mm. (LGCR-50-M85)

A Ammeter size 48x48, specify ammeter range.

4x Panel Mounted Operating Devices (selection)

PL Pilot Light, DPL series

PB Push Button, DPB series

EM Mushroom-Head Push Button, DMPB series

SL Selector Switch, DSL series

KS Key Selector Switch, DSLK series

Cat. No.

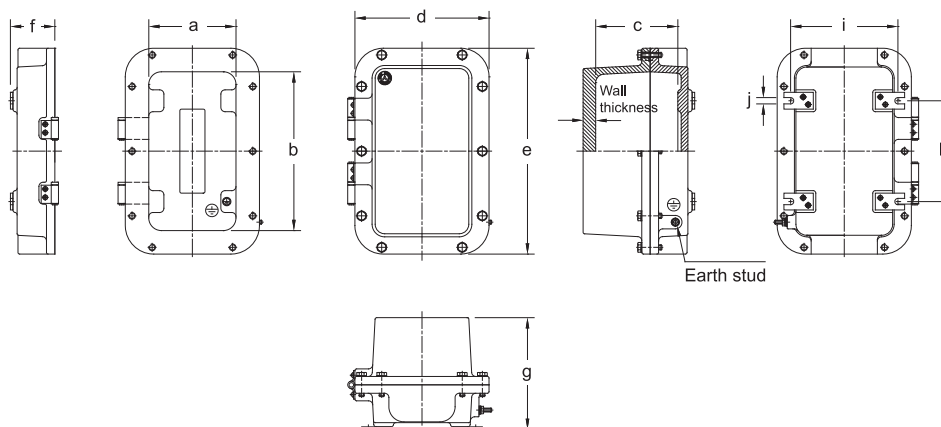
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed
(2x) Ø3/4" NPT	DCU-64GA□-TN2	DCU-64GA□-BN2	DCU-64GA□-CN2
(1x) Ø1" NPT	DCU-64GA□-TN3	DCU-64GA□-BN3	DCU-64GA□-CN3
(2x) M25x1.5	DCU-64GA□-TM2	DCU-64GA□-BM2	DCU-64GA□-CM2
(1x) M32x1.5	DCU-64GA□-TM3	DCU-64GA□-BM3	DCU-64GA□-CM3

Empty weight : 8.25 kgs.

□ - Ammeter range, see catalogue number or specify

D

Dimension



Empty Enclosure		Dimension in mm.										Wall thickness	Volume (dm ³)	Approx. Weight (kgs.)
		Inside		Outside				Mounting						
Size	Cat. No.	a	b	c	d	e	f	g	h	i	j			
Size 1	DCU-1 □	60	82	88	116	138	53	123	55	92	7.5	15	0.43	2.15
Size 2	DCU-2 □	60	134	88	116	190	53	123	65	92	7.5	15	0.70	2.30
Size 3	DCU-3 □	60	189	98	116	245	53	133	120	92	7.5	15	1.11	3.05
Size 4	DCU-4 □	104	134	98	160	190	53	133	65	128	7.5	15	1.36	3.50
Size 5	DCU-5 □	104	189	98	160	245	53	133	120	128	7.5	15	1.92	4.20
Size 6	DCU-6 □	120	273	116	180	333	68	153	170	154	7.5	15	3.80	8.25

□ - see catalogue number

Customized Control Unit Specification Sheet, DCU series



Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

Project: _____ Date: _____

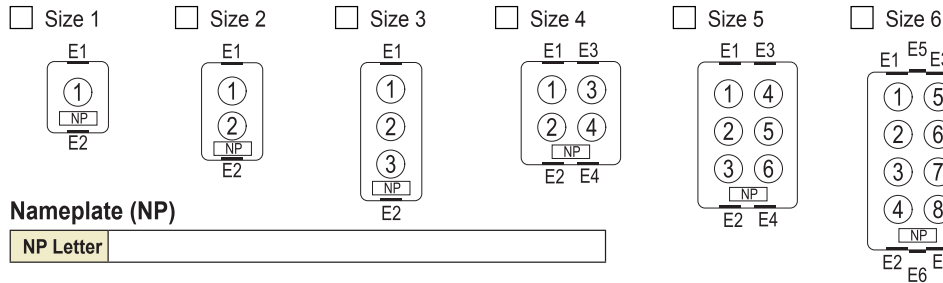
Customer: _____ Owner: _____

Contact person: _____

Quantity (Set)	
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Tel: _____ Fax: _____ E-mail: _____

Control Station Style



Entries

Top	
E1	
E3	
E5	
Bottom	
E2	
E4	
E6	

Nameplate (NP)

NP Letter _____

Panel Mounted Operating Devices Specifications

Unit	Panel Mounted Operating Devices	Nameplate
①	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
②	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
③	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
④	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
⑤	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
⑥	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
⑦	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____
⑧	<input type="checkbox"/> Pilot Light (Voltage/ Colour) _____ <input type="checkbox"/> Push Button (Contact/ Colour) _____ <input type="checkbox"/> Mushroom-head Push Button (Contact/ Colour) _____ <input type="checkbox"/> Selector Switch (Contact/ Position) _____ <input type="checkbox"/> Key Selector Switch (Contact/ Position) _____	<input type="checkbox"/> No nameplate <input type="checkbox"/> ON <input type="checkbox"/> OFF <input type="checkbox"/> RUN <input type="checkbox"/> OVERLOAD <input type="checkbox"/> TRIP <input type="checkbox"/> RESET <input type="checkbox"/> START <input type="checkbox"/> STOP <input type="checkbox"/> OFF-ON <input type="checkbox"/> MAN-OFF-AUTO <input type="checkbox"/> MAN-AUTO <input type="checkbox"/> EMER. STOP <input type="checkbox"/> Others _____

Nameplate Specifications Material: Acrylic multipolymer (12 x 40mm.), Legend colour: Black letter, white background

