

# 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)  
(optional offshore painting- acrylic polyurethane coating)
- Sealing (O-ring) : Silicone
- Bolts, Hinge : Stainless steel, SUS 304  
(optional SUS 316)

## Technical Data

<b>Hazardous Area</b>	<b>Gas</b>	<b>Dust</b>
<b>Zones</b>	1 & 2	21 & 22
<b>Equipment Group/Category</b>	Ex II 2G	Ex II 2D
<b>Symbol of Protection</b>	Ex d IIB T6 Gb	Ex tb IIIB T85°C
<b>Certificate No.</b>	Presafe 16 ATEX 8036X IECEX PRE 16.0025X	
<b>Conformity to Standards</b>	EN 60079-0:2012/A11:2013, EN 60079-1:2007, EN 60079-31:2014 IEC 60079-0:2011, IEC 60079-1:2007-04, IEC 60079-31:2008	
<b>Ambient Temperature</b>	-20°C to +55°C	
<b>Index of Protection</b>	IP66	
<b>Entries</b>	1/2" to 1" NPT or M20x1.5 to M32x1.5	
<b>Mounting</b>	Wall type	
<b>Rated Voltage</b>	Max. 400V.ac 50/60Hz.	

DCU-11-TN1



DCU-1C116-TN1



DCU-22-TN2



DCU-2C125-TN2



DCU-33-TN2



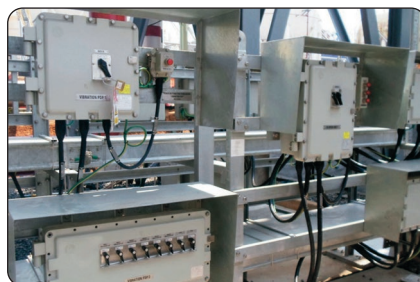
DCU-44-TN2



DCU-5C232-CN2



DCU-68-TN2





# 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 Panel Mounted Operating Devices

DCU - ■ ■ ■ - ■ ■ ■

Series	Enclosure size				Number of unit				Entries					
	1	2	3	4	1	2	3	4	Position	Size				
	Size 1	Size 2	Size 3	Size 4	1-unit	2-units	3-units	4-units	T	Dead-end/ Top	N1	1/2" NPT	M1	M20x1.5
	5	6			5	6	7	8	B	Dead-end/ Bottom	N2	3/4" NPT	M2	M25x1.5
									C	Through-feed	N3	1" NPT	M3	M32x1.5



## 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	
1/2" NPT	DCU-11-TN1	DCU-11-BN1	DCU-11-CN1	
3/4" 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	
1/2" NPT	DCU-22-TN1	DCU-22-BN1	DCU-22-CN1	
3/4" 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	
1/2" NPT	DCU-33-TN1	DCU-33-BN1	DCU-33-CN1	
3/4" 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)

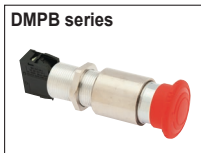
4x Panel Mounted Operating Devices (selection)				
1 3 2 4	PL	Pilot Light, DPL series		
	PB	Push Button, DPB series		
	EM	Mushroom-Head Push Button, DMPB series		
	SL	Selector Switch, DSL series		
	KS	Key Selector Switch, DSLK series		
Cat. No.				
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
(2x) 1/2" NPT	DCU-44-TN1	DCU-44-BN1	DCU-44-CN1	
(2x) 3/4" 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) 1/2" NPT	DCU-56-TN1	DCU-56-BN1	DCU-56-CN1	
(2x) 3/4" 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) 3/4" NPT	DCU-68-TN2	DCU-68-BN2	DCU-68-CN2	
(1x) 1" 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.

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## Catalogue Number Logic

Control Unit with Cam Operated Switch

DCU	-	■	C	■	■ ■	-	■ ■ ■
Series	Enclosure size	Cam Operated Switch	Number of unit	Switch Ampere	Entries		
1 Size 1	2 Size 2		1 1-unit	16 16A.	Position	Size	
4 Size 4	5 Size 5		2 2-units	25 25A.	T Dead-end/ Top	N1 1/2" NPT	M1 M20x1.5
				32 32A.	B Dead-end/ Bottom	N2 3/4" NPT	M2 M25x1.5
					C Through-feed		



## 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	
1/2" NPT	DCU-1C116-TN1	DCU-1C116-BN1	DCU-1C116-CN1	
3/4" 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	
1/2" NPT	DCU-2C125-TN1	DCU-2C125-BN1	DCU-2C125-CN1	
3/4" 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) 1/2" NPT	DCU-4C132-TN1	DCU-4C132-BN1	DCU-4C132-CN1	
(2x) 3/4" 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	Cat. No.		
	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) 1/2" NPT	DCU-5C232-TN1	DCU-5C232-BN1	DCU-5C232-CN1	
(2x) 3/4" 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

DCU	-	■	■	G	A	□	-	■ ■ ■
Series	Enclosure size	Number of unit	Inspection window	Ammeter size	Ammeter Range	Entries		
4 Size 4	5 Size 5	- none	Ø50mm. (LGCR-50-M85)	Size 48x48	30 0-30 /1A.	Position	Size	
6 Size 6		2 2-units			50 0-50 /1A.	T Dead-end/ Top	N1 1/2" NPT	M1 M20x1.5
		4 4-units			100 0-100 /1A.	B Dead-end/ Bottom	N2 3/4" NPT	M2 M25x1.5
					800 0-800 /1A.	C Through-feed	N3 1" NPT	M3 M32x1.5



## Ordering Requirements

1-window (size 4)

	1x Inspection Window, Ø50mm. (LGCR-50-M85)	Cat. No.		
	Ammeter size 48x48, specify ammeter range.	Cat. No.		
Entries	Dead-end/ Top	Dead-end/ Bottom	Through-feed	
1/2" NPT	DCU-4GA□-TN1	DCU-4GA□-BN1	DCU-4GA□-CN1	
3/4" 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 logic or specify

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## Ordering Requirements

### Control Unit with Inspection Window & Panel Mounted Operating Devices

#### 1-window, 2-units (size 5)

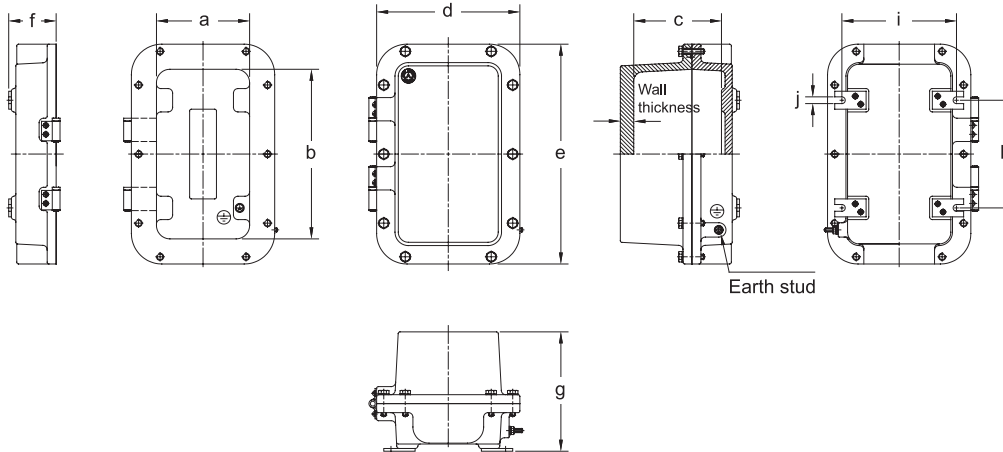
	<b>1x Inspection Window, Ø50mm. (LGCR-50-M85)</b> (A) Ammeter size 48x48, specify ammeter range. <b>2x Panel Mounted Operating Devices (selection)</b> (PL) Pilot Light, DPL series (PB) Push Button, DPB series (EM) Mushroom-Head Push Button, DMPB series (SL) Selector Switch, DSL series (KS) Key Selector Switch, DSLK series Cat. No.		
	<b>Entries</b> (2x) 1/2" NPT (2x) 3/4" NPT (2x) M20x1.5 (2x) M25x1.5	<b>Dead-end/ Top</b> DCU-52GA□-TN1 DCU-52GA□-TM1 DCU-52GA□-TM2	<b>Dead-end/ Bottom</b> DCU-52GA□-BN1 DCU-52GA□-BM1 DCU-52GA□-BM2
Empty weight : 4.20 kgs.			

#### 1-window, 4-units (size 6)

	<b>1x Inspection Window, Ø50mm. (LGCR-50-M85)</b> (A) Ammeter size 48x48, specify ammeter range. <b>4x Panel Mounted Operating Devices (selection)</b> (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.		
	<b>Entries</b> (2x) 3/4" NPT (1x) 1" NPT (2x) M25x1.5 (1x) M32x1.5	<b>Dead-end/ Top</b> DCU-64GA□-TN2 DCU-64GA□-TN3 DCU-64GA□-TM2 DCU-64GA□-TM3	<b>Dead-end/ Bottom</b> DCU-64GA□-BN2 DCU-64GA□-BN3 DCU-64GA□-BM2 DCU-64GA□-BM3
Empty weight : 8.25 kgs.			

□ - Ammeter range, see catalogue number or specify

## Dimension



Empty Enclosure		Dimension in mm.										Wall thickness	Volume (cm <sup>3</sup> )	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	430	2.15
Size 2	DCU-2 □	60	134	88	116	190	53	123	65	92	7.5	15	700	2.30
Size 3	DCU-3 □	60	189	98	116	245	53	133	120	92	7.5	15	1,110	3.05
Size 4	DCU-4 □	104	134	98	160	190	53	133	65	128	7.5	15	1,360	3.50
Size 5	DCU-5 □	104	189	98	160	245	53	133	120	128	7.5	15	1,920	4.20
Size 6	DCU-6 □	120	273	116	180	333	68	153	170	154	7.5	15	3,800	8.25

□ - see ordering requirements

# Customized Control Unit Specification Sheet, DCU series

Flameproof and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Project: \_\_\_\_\_ Date: \_\_\_\_\_

Customer: \_\_\_\_\_ Owner: \_\_\_\_\_

Contact person: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Quantity (Set)	
----------------	--

## Control Station Style

Size 1   
  Size 2   
  Size 3   
  Size 4   
  Size 5   
  Size 6

**Nameplate (NP)**  
 NP Letter: \_\_\_\_\_

## Entries

Top	
E1	
E3	
E5	
Bottom	
E2	
E4	
E6	

## 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

