✓ Specifications

Item	Description				
Operation mode (fixed according to model No.)	ON-OFF, position proportioning or open/close override function				
Input signal (fixed according to model No.)	Relay contact, 4–20mAdc, potentiometer (nominal 135Ω)				
Angular stroke (fixed according to model No.)	90° or 160°				
Motor timing (for relay contact, standard model)	39/33s (relay contact, angular stroke 90°motor, no-load, 50/60Hz) 69/58s (relay contact, angular stroke 160°motor, no-load, 50/60Hz)				
Output torque	12.5N·m (high-speed motor type: 6N·m)				
Power rated voltage (fixed according to model No.)	24Vac/100Vac/200Vac/85–264Vac, 50/60Hz				
Power consumption (during operation)	9VA (relay contact, potentiometer, 4–20mA types), 11VA (open/close override, 4–20mA, 24Vac types) 14W (4–20mAdc, 85–264Vac types). 15W (open/close override, 4–20mA, 85–264Vac types) 14VA (high-speed motor type)				

Item	Description				
Reference operating conditions	23±2°C, 50±10% RH				
Allowable temperature	-20 to +60°C				
Allowable humidity	5 to 95% RH (without condensation)				
Auxiliary switches (optional)	2 or 4				
Auxiliary switch contact rating	250Vac, 5A (resistive load)				
Auxiliary switch position at factory setting	Closed: 9°±5° Open: 81°±5°				
Auxiliary switch settable range	Within output opening range of 5 to 95%				
Open/close override function	Signals: CCW/CW/CONT/S. No-voltage contact. Contact rating: 30Vdc min., 100mA min. Contact resistance: 10Ω (1mAdc)				
Protection	Splash-proof structure, IP54 or equivalent				
Material	Case: Die-cast aluminum Bracket: Steel Cover: Polycarbonate resin with GF				
Mass	Approx. 3kg				

Model Selection Guide

Model No. Po	D (F0/C011-)	Input signal	Angular stroke	Motor timing		Output		Built-in auxiliary
	Power (50/60Hz)			50Hz	60Hz	torque	Remarks	switches (option)
ECM3000D01□0*	24Vac	Relay contact		39s		12.5N·m	ON/OFF control action	
ECM3000D11□0*	100Vac	Relay contact						
ECM3000D21_0*	200Vac	Relay contact]					
ECM3000E01□0*	24Vac	Potentiometer					Feedback potentiometer built in	
ECM3000F01□0*	24Vac	Relay contact]					4
ECM3000F11 0*	100Vac	Relay contact						
ECM3000F21_0*	200Vac	Relay contact	90°					
ECM3000G01□0*	24Vac	4-20mAdc						
ECM3000G0120**	24vac	4-20mAdc						**
ECM3000G91□0*	85–264Vac	4-20mAdc]	39s				4
ECM3000G9120**	85-264 Vac	4-20mAdc						**
ECM3000D03⊡0*	24Vac	Relay contact		20s	16s	6N·m	High-speed motor type, Feedback potentiometer built-in	4
ECM3000D0200	24Vac	Relay contact			9s 58s	12.5N·m	ON/OFF control action	None
ECM3000E0200	24Vac	Potentiometer		69s			Feedback potentiometer built in	
ECM3000F0200	24Vac	Relay contact	1					
ECM3000F1200	100Vac	Relay contact	1					
ECM3000F2200	200Vac	Relay contact	1					
ECM3000G0200	0.41/	1	160°					
ECM3000G0220**	24Vac	4-20mAdc						**
ECM3000G9200	05 0041/6	4 00 4 1		72s				None
ECM3000G9220**	85-264Vac	4-20mAdc						**
ECM3000F0400	24Vac	Relay contact		35s	29s	6N·m	High-speed motor type, Feedback potentiometer built-in	None

Dimensions

Angular stroke 90°type 160°type A dimension 32.5 20.5 **B dimension** 161.5 149.6 * Size C shows the length of the output shaft (9.5 square)

Optional parts

Part No.	Name				
N-3128	Crank arm				
J-26026G-ARM	Damper arm				
Q455C, D	Valve linkage				
Q605A, D, E	Damper linkage				
83165292-001	Bracket for V51E				
83165271-004	Extension unit*	Auxiliary switches (4 switches built-in)			
83165272-001		Auxiliary potentiometer for 90° type			
83165272-002	uriit	Auxiliary potentiometer for 160° type			

^{*} Only one type of extension unit can be mounted on a model without internal auxiliary switch.

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http://www.azbil.com/products/bi/order.html

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Azbil Corporation

Advanced Automation Company

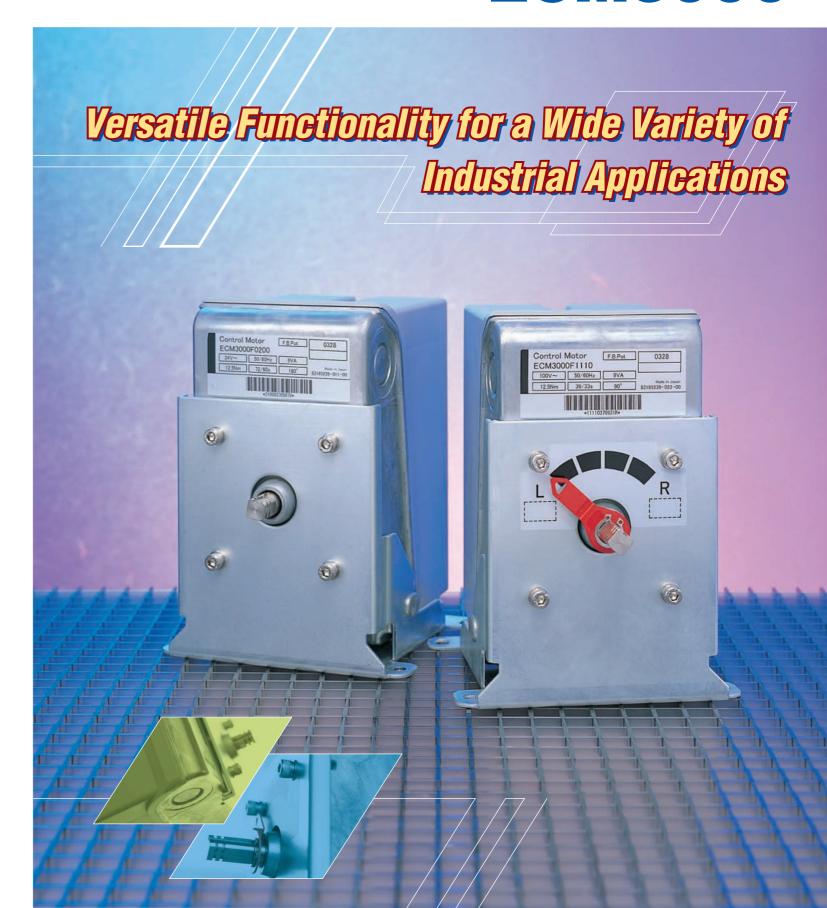
Yamatake Corporation changed its name to Azbil Corporation on April 1, 2012.

1-12-2 Kawana, Fujisawa Kanagawa 251-8522 Japan URL: http://www.azbil.com

1st Edition : Issued in Jun. 2004-BR 3th Edition: Issued in Jul. 2012-AZ

azbil

Electric Control Motor ECM3000



CP-PC-1408E

Powerful, Superior Control

ECM3000





Wide variety of models

The ECM3000 Series provides a wide variety of models for different input signals, power supply voltages, angular strokes, and many other application needs.



Long-life design

Long-life parts are adopted for various internal components of the motor. This ensures long service and dependability.



■ Models that run on 100Vac, 200Vac and variable voltage are available

The ECM3000 supports 100Vac and 200Vac power supply voltages. A variable voltage model is also available for the 4-20mAdc type.



Multiple functions for multiple applications.

Easy replacement of Azbil **Corporation's previous models**

Using the provided bracket, replacement of Azbil Corporation's previous motors with the ECM3000 is easy.



Rugged design is superior for tough environments

The protective structure of the ECM3000 is IP54 or equivalent. It can endure difficult environmental conditions, even splashing water.



Model with 4 optional auxiliary switches

Models with 4 auxiliary switches are available for the 90° angular stroke motor model. The valve position signal can be output to an external device. Additionally, for the 4-20mA input type, models with open/close override function plus 2 auxiliary switches are available.





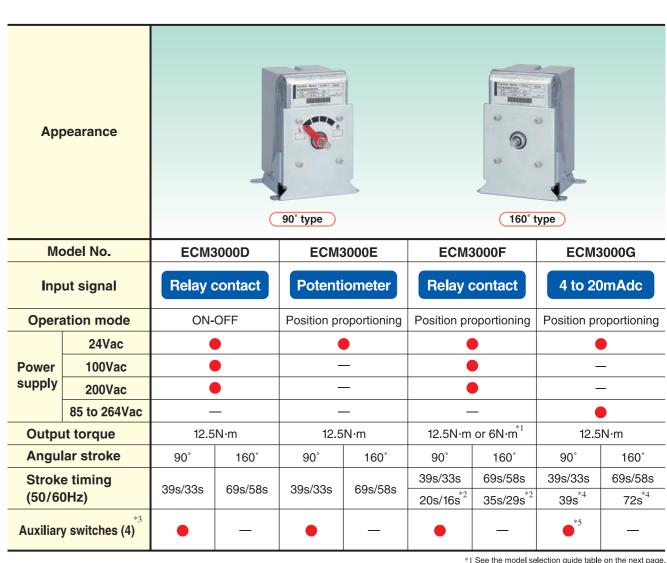






Selection Guide

A variety of models to meet your application needs.



- *2 The torque of the high-speed motor type is 6N-
- *3 Auxiliary switches (4) are optional
- *4 For the 85 to 264Vac power supply type
- *5 On models with the open/close ove there are 2 auxiliary swithches