

635/637f 1 to 30A

635/637f

Torque, speed, position or motion control are all standard operations of the 635/637f series AC brushless servo drive - without the need for external controllers. Each has its own internal power supply for direct connection to either 230V or 400V AC supplies and is available as part of a total servo package including motors, servo gearboxes and interconnecting

The 635/637f is available as either individual compact modules or as rack mounted assemblies with up to 9 drives in a single rack.





1500 STEP INTERNAL MOTION CONTROLLER

DIRECT CONNECTION TO 230V OR 400V AC SUPPLIES

MODULE OR RACK MOUNTED

SIMPLE COMMISSIONING AND **PROGRAMMING SOFTWARE**

COMPLETE PACKAGE OF MOTORS, SERVO GEARBOXES AND INTERCONNECTING CABLES

FIELDBUS COMMUNICATION OPTIONS

TECHNICAL SPECIFICATION

635 Series

Power Supply - 220 - 230V (±10% single or three phase up to 7A), 50 - 60 Hz ±5%

уре	Output Current Continuous (A)	Output Current Peak (A)	
35-K DER 01	1.0	5.0	
35-K DER 03	2.5	5.0	
635-K DER 05	5.0	10	
635-K DER 07	6.5	10	

637f Series

Power Supply - 380 - 460V (±10% three phase)

Гуре	Output Current Continuous (A)	Output Current Peak (A)	
637+K D6R 01.S5-7	1.0	4.0	
637+K D6R 02.S5-7	2.0	4.0	
637+K D6R 04.S5-7	4.0	8.0	
637+K D6R 06.S5-7	6.0	12	
637+K D6R 10.S5-7	10	20	
637+K D6R 16.S5-7	16	32	
637+K D6R 22.S5-7	22	44	
637+KD6R30.S5-7	30	60	

Peak Output Current - Stated peak output currents are for a

Ambient - 0 - 40°C (Derate 2%/C up to 50°C max) Up to 1000m ASL (Derate 1%/100m up to 4000m max)

Inputs/Outputs

- 8 Digital Inputs (inc 2 interrupts)
- 5 Digital Outputs (3 x Opto-coupled, 2 x Relay)
- 2 Analogue Inputs (-10V / 0 / +10V)
- 1 Analogue Output (0 10V)

Motor Resolver Input

Encoder (Configurable Input or Output)

Serial Communication Options RS232

PROFIBUSDP RS422 INTERBUS S RS485 SUCOnet K

CANbus

Sin/Cos Encoder Option

Input/Output Expansion Options

635 - Additional 5 Digital Inputs/2 Digital Outputs

637f - Additional 14 Digital Inputs/10 Digital Outputs

Dimensions						
		A	В	C		
635	1 to 6.5 Amps	91	249	216.5		
637	1 to 10 Amps	61.5	400	280		
637	16 to 30 Amps	104	400	280		

Allow extra 70mm in front of unit for plugs/cables.

STANDARDS

C€marked

EN61800-3 (EMC compliance) with external

EN50178 (safety, low voltage directive)

listed to US and was listed to Canadian safety standards







631 and 635/637f Ancillary Equipment

Port Number Description CABLES / CONNECTORS Complete cable sets with connectors ready fitted at motor and drive end CM469021UxxO Drive to ACG/ACM2n motor POWER. Non repetitive flexing, no broke core Drive to ACG/ACM2n motor POWER. Repetitive flexing, with broke core CM469095Uxx0 Drive to ACR(L) size 4 motor POWER. Repetitive flexing, with broke core Drive to ACG/ACM2n/ACR(L) RESOLVER. Non repetitive flexing CM469025Uxx0 CM469027Uxx0 Drive to ACG/ACM2n/ACR(L) RESOLVER. Repetitive flexing xx = Comp lete coble set length; Standard lengths 2, 5, 10m. eg CM469021U050 = 5m length

Loose Cable (no connectors)

CM469020 Drive to ACG/ACM2n motor POWER. Non repetitive flexing, no broke core Drive to ACG/ACM2n motor POWER. Repetitive flexing, with broke core CM469022 CM469094 Drive to ACR(L) size 4 motor POWER. Repetitive flexing with broke core Drive to ACG/ACM2n/ACR(L) RESOLVER. Non repetitive flexing CM469024 CM469026 Drive to ACG/ACM2n/ACR(L) RESOLVER. Repetitive flexing

Loose Connectors C1469039 Motor POWER CONNECTOR for ACG/ACM2n (size 0-3) Motor POWER CONNECTOR for ACR(L) Motor RESOLVER CONNECTOR for ACG/ACM2n/ACR/L) (1467068 X101/0 Drive Connector for 635/7 X30 Resolver Drive Connector for 635/7 X40 Encoder Drive Connector for 635/7 COM 2 Communications Drive Connector for 635/7 LA467063 Package X10, X30, X40 and COM 2 Drives Connectors for 635/7 LA467064 X10 Test adaptor connector for 635/7

631 Interconnection Cables/Connectors

631 X20-X20 or X40-X40 100mm interconnecting cable with connectors both ends CM469036U001 CM46902911010 631 X20 1m cable (4 core) with drive connector one end

CM46903311010 631 X40 1m cable (8 core) with drive connector one end

CM469031U003 631 X20 to 635/637/IBT MMI 300mm interconnecting cable with connectors both ends C1469030 631 X20 CANbus terminator plug

631 X40 to 635/7 X40 300mm interconnecting cable with connectors both ends CM469034U003

635/637f COMMUNICATION AND EXTENDED I/O OPTION BOARDS Profibus DP (Factory fit only) AH46705911001 AH46705911002 AH467059U003 Devicenet (Factory fit only) AH46705911004 Suconet K (Factory fit only) AH467059U005 RS232 AH467059U006 RS485

AH467059U007 RS422 AH467059U008 Interbus S (Factory fit only) 635 5 Inputs / 2 Outputs Expansion board 637 14 Inputs / 10 Output Expansion board

CANBUS ANCILLARY EQUIPMENT

C0467071

LA469119 8 Channel 1/0 Expansion Module LA469118 BCD Switch Module - 6 Digit BCD Switch Module - 5 Digit plus sign BCD Switch Module - 6 Digit with 6 digit LED readout LA469121 BCD Switch Module - 5 Digit plus sign with 6 digit LED readout

635/637f EMC EQUIPMENT (NB 631 Series has internal RFI filters)

12A 230V 1 phase RFI filter C0467072 BA 480V 3 phase RFI filter CO467557 1BA 480V 3 phase RFI filter C0467580 34A 480V 3 phase RFI filter LA467069 635 (KDERO3...07) Cable clamp kit 635 (KDFR10) Cable damp kit LA467070 637 (KD6R02...10) Cable clamp kit 635 (KD6R1 6...30) Cable clamp kit

SOFTWARE AND ASSOCIATED HARDWARE

631 EASYRIDER 'Windows' Software Development Kit including LA469099U002 - PC to 631 Programming cable I A387599

RD467061U006 - EASYRIDER Software disc HA467060 - BIAS Programming manual LA469102U002 635/637 EASYRIDER Software Development Kit including CM467062 - PC to 635/7 Programming coble - EASYRIDER Software disc RD46706111006

HA467060 - BIAS Programming manual LA467064 - X10 Test adaptor plug

MMI (MAN MACHINE INTERFACE)

4 x 20 Character IBT MMI

MMI to 635/7 2m Interconnecting cable with connectors

MMI to PC 2m Programming Cable **MMI Programming Software**

















