



ENAPART



93 S Railroad Avenue Unit C
Bergenfield NJ 07621 USA
www.enapart.com
sales@enapart.com



Via del Canneto 35,
Borgosatollo, Brescia - Italia
www.enapart.it
vendite@enapart.it



Barbaros Mah. Ihlamur Bul. Aĝaoĝlu
My Newwork No:3/15 Ataşehir / İstanbul
www.enapart.net
satis@enapart.net



PRIVADA 10 B SUR #3908 COL.
ANZUREZ, C.P. 72530, PUEBLA, PUE
www.enapart.com.mx
sales@enapart.com.mx



Friedrich-Ebert-Anlage 36, 60325
Frankfurt am Main, Germany
www.enapart.de
anfrage@enapart.de



4 boulevard Carnot, 95400
villiers-le-bel, Paris, France
www.enapart.fr
sales@enapart.fr



65049, ОДЕСА, ВУЛИЦЯ ІВАНА
ФРАНКА, БУДИНОК 55, ПОВЕРХ 3
www.enapart.com.ua
sales@enapart.com.ua



MUNICIPIUL BUCUREȘTI, SECTOR 3,
B-DUL BASARABIA, NR.250, CORP P+5
www.enapart.ro
sales@enapart.ro



〒584-0023 大阪府富田林市若松町
東2丁目2番16号
www.enapart.co.jp
sales@enapart.co.jp



PLAZA NUESTRA SEÑORA DE LAS
NIEVES 12 ,LOCAL ,50012,ZARAGOZA
www.enapart.es
ventas@enapart.es



Складова база „Онгъл“, Склад А2, п.к.
4006, гр. Пловдив, България
www.enapart.bg
sales@enapart.bg



3 Austin Mews, High Street, Hemel
Hempstead, HP1 3AF , United Kingdom
www.enapart.co.uk
sales@enapart.co.uk

Fimet

Enapart always strives to provide the competitive prices and timings of supplies for its customers. We sell only original equipment and spare parts, although we are not always the official distributor or manufacturer's dealer. All displayed trademarks and part numbers are the property of their respective owners.

BRAND'S PRODUCTS

Product	Description
1HM1 160L2	Asynchronous motor
1EM-1R 160 L 4	AC Motor
1M-1 250 M4 B3/B5	three-phase asynchronous motor
3MA 100 LA-4 B5	
Typ 3MA 132S-4, Baugrosse 132	Drehstrom-Asynchronmotor m. Käfigläufer
COD FIMET 2935600	brake
FA3TYCRA-CA00AJFAZ Type: 180 L 4/8	Motor
MA200L-10	Three-phase asynchronous motor
MF90L4	three-phase asynchronous motor
Type V4 132	
11001940	Motor
2KM1110AMA200	Kit
1EM-315M4 B3	Motor
2012600320 RE- RK4E A2A090S6	Reducer
M1- FIMET MA160L6	Motor
70013016	motor
Riduttore RE-FIMET R5E MAOT	
ACA132M4	Drehstrom-Bremsmotoren m. Käfigläufer
Rectifier AC/DC	Brake – motor
1EM-1 180 M4 690/400 50HZ B3/B5 IE2 class	motore C2--FIMET MOTOR
3EMA 132 M4 690/400 50HZ B3/B5 IE2 class	motore C2--FIMET MOTOR
1M-1 180M4 B35	motor
3MA 132M4 B35	MOTOR
M F 280 M 4/8 (Ü-100025)	Drehstrom-Asynchronmotor m. Käfigläufer
ACM315LA2	Drehstrom-Asynchronmotor m. Käfigläufer
ACA100LA4	Motor
AA160L-4	Three-phase asynchronous motor with squirrel cage
Brake VAC for FIMET Motor AAO 132 M-MA	
Füsse	
1EM-1 315 M4 690/400	Motor C2
SF4 B3 MA F80 C4	Getriebe fuer ETR motor
M71B2	
M 100 LA-2 B3	Drehstrom-Fussmotor
MA 160 L-4	3-Phase Motor
DN40	
FOR MOTOR MA 132 MAG	FAN COVER SIDE

Product	Description
MS514050009	Rectifier
FOR MOTOR MH 315 M 4/8 S/N 110030238	DE FLANGED SHIELD
3EMA90S4	GEARMOTOR PEK3
KRA1B2 F/B5	STIRNRADGETRIEBE - MOTOR
KRA2B2 F/B5	STIRNRADGETRIEBE - MOTOR
Typ 3MA 100L-4, Baugrösse 100	Drehstrom-Asynchronmotor m. Käfigläufer
Typ F 250M-4	Drehstrom-Asynchronmotor m. Käfigläufer
MAR 160 L 4/8	AC MOTOR
PE3102DF00	Pressure gauge
PE320380LF	Pressure gauge
PE320680LF	pressure gauge
PE321680LF	pressure gauge
PF2366DF01	pressure gauge
PH566616	pressure gauge
MA200L8	MOTOR
TF90HY2X	Drehstrom-Bremsmotoren m. Käfigläufer
FCPA132MC4	Drehstrom-Asynchronmotor m. Käfigläufer
FCPA132SB4	Drehstrom-Asynchronmotor m. Käfigläufer
M F 160 L 4-8 13,0/6,5 KW	Motor
Typ RA 2 A2 F B3 1/6,23	helical gears
3MA 90 S-4 1,1 KW B5	AC – Motor
TF71DY2S	Three-phase brake motors with cage rotors
M 160 L 4-8 400/230 V	AC motor
MA160L-SCAT-MORS-DX-B3-E6600346 (Item 1)	Electric motor
MA160MC-M-L-B5-E6700140 (Item 2)	Electric motor
M2A 80C4	Getriebemotor
3EMA 132 M.4	Reduction Ratio
M2A 112 M4/8	Reduction Ratio
M 050 FC 26.0 3MA80C4 380	FIMET_GEAR MOTOR
MA180L8	Fin fan cooler motor with fan
R7E	GearBox
MRA2B3	GEARBOX
IM 250 M-4 B3 – IE2	three-phase motor
MAO 160 MC8 4KW 710RPM WITH BRAKE IN CC	AC BRAKE MOTOR
MAR180 L 4	Motor
EM 225 M 4	AC MOTOR MOTORE TRIFASE TIPO
132 S-2	MOTOR
R5E-MVT 112 M4	Gearmotor
MF 160 L-6	Motor
IM 250 M-4 B3	Motor
1 EM-1 280 S-4	
M 112 M-2	
MV 250 M-4 B3	
100LA4	three-phase asynchronous motor
Fan for M 315 M4	Fan for motor

Product	Description
AX100K3	
AX 200L3	
AX 100K2	
ATEX MGF 225 S4	Motor
M160 MC4/6/8 OEM	MOTOR
FM155	Complete brake
M2AO 132 M4	Selfbraking Motor
1M-1 160 M6 B5/V1	
RK5E RATIO 9,45 + AC MOTOR 3EMA	REDUCER
EMA F 160 MC-2 – IE2	motor
1D250-M4,	MOTOR
MF 200 L 4	
3HMA 132 M4 B5	THREE-PHASE INDUCTION MOTORS
3EMA 80 A4	MOTOR
MF 160 L4-8	Motor
NHL 40/2 PAM100B5	
3EMA 80 B6	MOTOR
MAH 160 L	MOTOR
3HMA 132L2	MOTOR
AA90L2	SERVOVENTILATED MOTOR
M2AO 80 A2	BRAKEMOTOR
AAF 132 S-4	
1HM1 250 M4	THREE-PHASE INDUCTION MOTORS
Fan cover for M315	Fan color for motor
3EMA 90L2	MOTOR
MF 315 M-4	cast iron housing
3MA 71 A 2	three-phase asynchronous motor
315 M-4 IMV1	
1M-1 160 M4 B5	MOTOR
A 225 S-4	3 FASES motor
M2A 80A 2/8	Motor
Typ A 400 LA - 8	Motor
2418801720	Motor
884400790	motor
2428100950	MOTOR
MAF 200 L-4 B5	motor
MRXP3/816/A/111/PAM200-G/N/M1	Geardmotor
MAF 200 L4	MOTORE AC
J07010717	Motor
MF 250 M4 55 KW	MOTORE AC
1HM1 280S4	Motor AC
Fan cover for 1HM1 280S4	
Fan for 1HM1 280S4	
Tipo: M 71C2	
MF 315 S4	MOTOR

Product	Description
DN 132 M4/8	
10002040	
1EM1 315 S4	
M2AF 100 LB-2/4 B5 RED 90D	
EM 315 M6	AC MOTOR
1M-1132S4B5	ELECTRIC MOTOR
315 M6 110 KW 6 POLI B3	MOTORE AC NUOVA SERIE EM
1MAR 160 L4 15 KW 380/660 VOLT 50 HZ – B5	MOTORE AC ATEX NUOVA SERIE
Calotta anteriore motore M315MA6	front cover
EM 250 M4	AC MOTOR
RK4E+3EMA80A4	GEAR MOTORS
YLEJA-AA-13.0	Reducer
AC M 160 L4/8	motor
OEM 3EMA 100LA24	AC MOTOR
2303700390	
BRAKE' RECTIFIER	
M2ARF 100 L4	
MAOF 132 M8	
70012963	
MA2 100 LA2/4	
2104600270	motor
MA+F 160M4	Dreiphasen-Käfigläufer-Motor
MA+F 90S4	Dreiphasen-Käfigläufer-Motor
MF 100L4/6	2 PSEED MOTOR
MFA 180L4/8	Dreiphasen-Käfigläufer-Motor
MF3MEA-71-2	Dreiphasen-Käfigläufer-Motor
2159462/ Typ MBF 90L4	Dreiphasen-Käfigläufer-Motor
Typ MBF 90L4 (Inkl. Getriebe kpl.)	Dreiphasen-Käfigläufer-Motor
785103210	Dreiphasen-Käfigläufer-Motor
G12001605	Dreiphasen-Käfigläufer-Motor
Typ MAO F 112 M-8 B5.	three-phase brake motors with squirrel cage
11001908	Dreiphasen-Käfigläufer-Bremsmotor
MPR 200 L-4	Dreiphasen-Käfigläufer-Motor
SN 2149364	
2141517	
P063C PA 1/94	Motor
M2AO 80A-4	motor
RK4E 1/5.95	Getriebe-Motor
Typ M 225-H4	Dreiphasen-Käfigläufer-Motor
MAS-F180L4/8 17.5/18K + RING M160-180 & MA 180 HOLE 44.5	fan
ADV5900-KXX-4	Inverter
PEK3+motore 3EMA90S4	Adapter
M2AO 132 M6	Autobrake
PEK4+motore 3EMA112M4	Reducer+motor

Product	Description
M250M6	Motor
MO 100 LA6	
MF 132 S4	
PT0FC1DF1392.AM6DJ	Gear motor
MF 250 M6	Motor
MF 160 M4/8	motor
RK7E+MOTORE M200L4	Reducer motor
3HMA 100 LA4 Form B3	Motor
ACM 160 MA-2/PHE B3	Dreiphasen-Käfigläufer-Motor Aluminiumgehäuse
ME 100 L-6 B3	Dreiphasen-Käfigläufer-Motor Aluminiumgehäuse
R8E MAT 180 M-4 U DA63F	Stirnradgetriebemotor
Typ 225 S4 B3	FIMET-ELEKTROMOTOR
F3PA090L4	
3MA 90L 2 B35	Motor
RK5E+Motor 3HMA132L4	
MAH-160M 4/8	MOTOR
02935800	Brake
A3A132M4	three-phase asynchronous motor
ACA71B2	Three-phase asynchronous
AWM7D	7mm hex key
Typ DN 160 L-4/8 B3	
Uac~100..660V Udc-45..300V	rectifier bridges for brakes
MO 132MA6	Motor
ACM315S4	
R3E	
MAOT 160L2-8	Motor
M225 ED90- MS200 ED.75	Fan
Propeller cover for motor 1M1 315 M6 B3 (s/n 17001001)	Propeller cover
EM315M4	
M 112 M2-4 – 6/4,8	Motor
M2AO 80 B4	Motor
PEK5 P33	Pendular gear motor
3HMA 100 LA4	Motore AC
EAA 200 L4 EFF1	THREE-PHASE MOTOR WITH ASSISTED VENTILATION
M2AO 100 Ia4	Motor
P050C	Reducer
MY F 180 M-4	
3EMA132SA2 IE2	Motor
3EMA 112 M4	Motor
COVER FOR FIMET MOTOR MH200	
SF7 MF80A4	FIMET Schneckengetriebe - Motor
15000021	Lüfter
Typ ACA 132MA-6/PHE	Drehstrom-Asynchronmotor IE3
3EMA 132 M6	Motor
100-660VAC OUT 45-300	rectifier bridges for RECTIFIER

Product	Description
3EMA 80 A2 (B3) foot	
3EMA 80 A2 (B5) flange	
3EMA 90L4	Three-Phase Asynchronous Motor
3EMA 71 A4 (B3 FOOT)	
3EMA 71 A4 (B5 FLANGE)	
1EMA 112 M2	FIMET MOTOR special series for inverter
MAF 160L4 15KW B5	
R2EX, MAT90S-4	Getriebemotor
2KM1110AMA160	
M2AO/MAO/AA0	FIMET RECTIFIER BRIDGE
Type: AA 160 LA Nr:764800500	Motor
3EMA 112 M6	Motor
MVT 80A 4	Motor
RK4E	COAXIAL GEARMOTOR
M71A2	Motor
RK4E B3 + 3EMA 90 L4 IE2	Coaxial drive motor
type: M 315 MA 6	Cover (High torque three-phase asynchronous motor)
MAF200L6	Three-phase asynchronous motor
M2A100LA4	THREE PHASE INDUCTION MOTOR
M250M4	Motor
3EMA71A6	Motor
M634 S F3/01	Reducer
COD. 6150020	brake disc
MGE08BB-A5CB (COMPLETE FIMET MOTOR)	
3EMA132MA-4 B3	AC engine
MPR 225 M 4	three phase motor
A04066 / MAA40ZB-C2AA	Motor dreiphasig
EMA180M2	ELECTRICAL MOTOR
MRA3C2 M2AO 90 LA2-8	Gearmotor
MF90L 4 (460V/265V)	Motor
MED07UA-A1AAA04855	Motor
MAO 160 M 6	
MA 132 MA6	Motor
3HMA 160 MC 2	Motor
MAK35HC-AGAA	ENGINE
MAP35HC-AGAA	ENGINE
R59E	ADAPTER
A 355 MA 4	THREE-PHASE MOTOR
MF90L 4 (795V/460V)	Motor
MA 160 M4	Electromotor
R61469	Reducer
M085 F1 14.0 3EMA100L4 400/230-50 B6 IE2	Reducer
3HMA-112M4	4 KW – 4 POLI – VOLT 230/400 – FORMA B3B5
02919990	motor
2421100950	Motor

Product	Description
YKGJCPAA-95.9	
02801306	RECTIFIER BRIDGE
TYPE 132 M 4	Motor
132 M 4	Motor
MA 160 L 6	Motor
MAR 180 M 4/8	Motor
1HM-1 280M4	Motor
HM 280 M4 B3	
1M-1.315MB	Electric motor
1M-1.250M4	Electric motor
1M-160L2B	Electric motor
YREJL3DFM328BBB0A1	Gear Motor
2203700280 Type AAF 132 M-4 B5	
M2AR 9084/8	Motor
04661116	Front cover
M+F 225S4	Motor
5L7501	motor
M 132 M4/8	
Brake Rectifier for MOF80C4	Brake motor
ACM 180L-4	3-phase asynchronous motor
J 225 S 12	Engine
1850008	Motor
Type 1HM1 280M4	Motor
EA225 S 4	THREE-PHASE MOTOR WITH ASSISTED VENTILATION
TYPE NA 3055	NEEDLE ROLLER BEARING
2427401030	Engine
2332200730	Engine
R5E MAOT 160 L 2-8	GEARED MOTOR
MR225M4/8	THREE-PHASE MOTOR
3MA 71A6	Motor
HM 250 M 4 IE3	Motor
M 250M 8 B3	Motor
MA 180 L4 B5	engine
Rectifier for MA0 F 604	
3MA 80A 4 B5	Motor
TYPE MGF 225 S4	ELECTRIC MOTOR
Type: 71 A 4	SELF-BRAKING MOTOR WITH DC BRAKE
MRA3C2 B5	GEARMOTOR
15000051	Fan
RA2B3 B3 F0	Reducer
M 160L4/8	Motor
MFA16VY-B1AAA00090	Three-phase motor
MAR 160 M 4/8	Three-phase motor
PEK5 -3EMA100L4 PB3	Reducer
PEK5 -3EMA132S4 PB3	Reducer

Product	Description
PEK5 -3EMA132S4/8 PB3	Reducer
RK4E+RA2B2 V1	Gear Motor
MA 200 L 10 690	THREE-PHASE ASYNCHRONOUS MOTOR
1HM1 280 M6	Motor
RK6E MAF112M6	
RK6E MA123S4	
MAF 100L4	Motor
3MA 132S2	Motor
M2A100LA2	electric motor
MA180L2	electric motor
M225M2	electric motor
M250M2	electric motor
MA 160L 4-6	MOTOR
1HM-1 315MB4 B5	Induction Motor
M2AO100LB 4	Motor
Flange B5 size 3EMA132	Flange
AA5XCAJE-AMP099AC3	Motor
M2AO100LB 4 - MGE10XB-A5CBA02897	Motor
BASE KIT + KIT M280-315 ED.90 + CLAMPS + NUTS AND WASHERS	BASE KIT + KIT M280-315 ED.90 + CLAMPS + NUTS AND WASHERS
RK7E B3	GEARED MOTOR
RK7E B3 - 9230001	Gear motor
RIDUTTORE NUDO Con ALBERO A SEMPLICE A4 V1/2	
PEK5	
1HM-1 180 L 6	AC Motor
3HMA 112 A6 IMB3	Motor
3HMA 112 A6 IMB5	Motor
AC MOTOR 1HM-1 280 S4	
PEK5 PB8 / 1 (drawing R63967)	Motor
M 315 MB 6	
1M-1 160M-4	Engine
3MA 132 M4	Engine
EM315 MA6	
6209 zz/c3	back cover
6309 zz/c3	flange front cover
1HM-1 160L4 690/400-50 B5 IE3	
1HM-1 160M4 690/400-50 B5 IE3	
CALOTTA LATO COMANDO MA 180	
COOLING FAN FOR MA180M4 ENGINE	
MA 180 L4 B3	Motor
AC MOTOR 132 S 4/8 460 V 60 HZ B5	
AC MOTOR 132 S 4 460/265V 60HZ B5	
TYPE RK4E	geared motor
IE3 TYPE 3HMA 160 M4	Engine
IE3 TIPO 3HMA 132 MA4	Engine

Product	Description
RK6E B5	Reducer
X3DAA2KFT231FBM9EA	Gearmotor
MRA3C3 B5 Din	GEAR MOTOR
M2AO 112MB 8	motor
132 MB	Motor
MEP11GA-AWAAA04855	motor
M2AO 112MB 8 (MGE11HD-FYVAA05168)	SELF-BRAKING MOTOR WITH DC BRAKE
Model: EM 250 M 6 - Type MAK25HC-A2BA	Motor
XNKAF2BFN031X*B057	.
760700070	Gearbox
MA+F 90L4	three-phase asynchronous motor
MF250M4/8	motor
M1AO 132 MA6 B3	motor
3MA 132 M-4 B5 – IE3	hydraulic pump with motor
3HMA 132 MA4	MOTOR
HM 280 M4	motor
MEC160SDD	brake
M 355 M4	
MAH 200L4/8 400-50 B3	engine
1EM-1 315 MA 2 B3 IE2	AC MOTOR
PB210117LF	DN50 PRESSURE GAUGE
MF 160 M 8 84000020 55	motor
PG566606LF	
PG366614LF	
PG366014LF	
PG566016LF	
HM 315 MA 6 IE3	THREE-PHASE MOTOR
1HM-1 160 L 6 B3 IE3	AC MOTOR
M 90S6/8	motor
7012470L	Three-phase asynchronous motor
02935750	BRAKE
M 132 S4/ 8	three-phase asynchronous motor
80 A4 400/230v 50hz	motor
982000550	
982000560	REDUCTOR
EM2A 132 MA6	COAXIAL GEAR MOTOR
M2A 132 SA 2/4 B5	THREE-PHASE MOTOR
M2AO 80B2-8	self-braking motor with dc brake
PP050PV02S0DV5	reducer
2KM1110AM250	
1HM-1 315 MA	Engine
3MA71A4 B5	geared motor
1HM-1R 280M 6 V3	FIMET THREE-PHASE MOTOR
MAA28HD-AGAAA05147 M 280 M 8	
RK5E B3	COAXIAL GEAR MOTOR

Product	Description
R2E MOVT80A4/9025102	electric motor
3HMA 132 MA6	
brake for M2A0100LA4	SELF-BRAKING MOTOR
M2A0100LA4	Full brake
3MA 80 A6 B5 / 440/254 V	AC MOTOR
IE3 3HMA 100 LA 4	AC MOTOR
MRA3C2 B3 F0	GEARMOTOR
M2AO 132S6	SELF-BRAKING MOTOR
PT5A507006	Thermometer
PT5B507006	Thermometer
3MA132M4B5	motor
MBP13HB-AGCK	
MA/EM/HM 200	FOOT KIT
2HMA 71 C	Engine
RK4E B3	reducer
M2A0 F 100 LA 4	three-phase asynchronous motor
Terminal box for M2A0 F 100 LA 4	Terminal box
Ü-100025/M+F 225S4	Werkhselstrom motor
JA 180 L 8	fan motor
PEK5-PB3/1 - 3MA132 M4	Gear motor with parallel axes
3HMA 100 LA4 Form B5	
HM 315 S 6	three-phase asynchronous motor
PG351014LF	
M F 180C M4	three-phase asynchronous motor
IE3 1HM-1 160 L 4	
A7 B7/1 /819101260	gearbox
MR02 160	motor
PV3112DC00	pressure gauge
PE352514LF	pressure gauge
PE366214LF	pressure gauge
M1-ABS 63/QG	
M 280M 4 380.660-50 B3 / PN: 2153175	Engine
M225S4	Electric motor
FIMET HMA 100L4 3.6kW 1720rpm 60hz 440V B5	
3MA-132SA 2 B35	
ME F100 L2	Three phase asynchronous electric motor
SN9010612	
HMA 100LA2/4	motor
RK4E + 3HMA132 MA6 – 4.5 KW	COMPLETE GEAR MOTOR
3HMA 100 LA4 460volt at 60 Hz	
9508	Thermometer with temperature
MA 160L8 Type: 160	Engine
MEP13HC-A2CAA06071	
0982KAFF-V / 3HMA 132SB2 B3 IE3	AC MOTOR
MF355MA4	motor

Product	Description
9766037520	Three-phase motor, pole-switchable
MF 71A4/8	
MRXO3 / 816 / C1 / 368 / PAM160G / Us / M3	
MAF71A2 N 60165409	
MED08BB-A1CAA06017	
1HM-1 280M 4 480.830-50 B3/B5	asynchronous motor
HA-225S4	motor
AC 3HMA 90 L 2	motor
PEK5 PB8/1 M2AO 100 LA6 B5	
1HM-1 280M4 - 90KW - 4P B3/B5 IE3	motor
M2AO 71A4 + M045 C	Motor
LEGS FOR MO 134M4	
3HMA 80-A4 B5	Engine
M2AT 100 LA 4	motor
MH 225 S 4/8	
3MA 80A 4 B5 400/230 V	
SN 100501157	
AC 3MA 80A6 B5	
M400LB4	motor
G15000575	electric motor
420201	Motor
MF80A4 / 065107	
70010561	reducer motor
MA 132 LA 4/8 400V 50HZ B3	
RE6 MOVT132M2/4 - SN9192103	
SN4860504	motor
6517016	
SN19000127	motor
X3GAA3THN11.0BDX64	reducer motor
MA 200 L4	AC MOTOR 30KW 3 PHASE 660 V / 380 50HZ 1470 RPM with X1 certificate
80B8	
22700110	FLANGE FOR REK5 REDUCER
TJEFGMAA-39.3	
TGEFG2KF-39.3ABA2W	
65.58.02/50918477	
SN 2224000740	THREE-PHASE MOTOR
AA3DDFGE-CWJGAJAFD	THREE-PHASE ASYNCHRONOUS MOTOR
X3DAA2FF-23.1ABA2W /SN 9801420	
9919604	
759110210	MOTOR
564902	motor
SN 984000020	
1209002	
02935600	

Product	Description
SN802100070	
1HM-1 112M4 B5	AC MOTOR
SN802100070 IE3	
RK4E-M2AO90LA4	GEARED MOTOR
FM 120-178VDC	BRAKE GROUP KIT TYPE
M+F 315 MA6 - 110KW	ENGINE
02801306 RECTIFIER	rectifier