

Type : **A-MRZ10B/160/500/1**

TECHNICAL DATA

47.4 Hz @ VSD

Volume flow rate	V	m³/h	1.717
Static pressure at ρ= 1,2 kg/m³	Δpsf	Pa	3.150
Total pressure at ρ= 1,2 kg/m³	Δpt	Pa	3.488
Static pressure at ρ= kg/m³	Δpsf	Pa	
Total pressure at ρ= kg/m³	Δpt	Pa	
Rated speed	n	1/min	2.786
Impeller power at ρ= 1,2 kg/m³	Pr	kW	2,09
Impeller power at ρ= kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	593m
for installation type D (ISO) calculated acc. to VDI 3731			
Sound pressure at free inlet		dB(A)	783m
Fan weight (without motor) approx.		kg	79
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=75 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor		
Type/Size	IE3W41R 100 LY2 / 100L		
Rated voltage U/Frequency f	V/Hz	3x400 / 50	
Rated speed n approx.	1/min	2940	
Rated power P	kW (acc. eff.-cl.)	3 (IE3)	
Design/protection class		B3 / IP55	
Motor weight approx.	kg	38	
Classification		IEC 60034	
Insulation class/utilised		F/	
Rated current I/ Starting current I approx. A		6,2 / 10,1times	

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides - key hub
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SG18,DIN24154,vz (z=0,55)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2y (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 160 RSt 372
- 1 x Supply air circular silencer Di/axL:160/360x700 mm

Type : **A-MRZ10C/180/530/1**

TECHNICAL DATA

47.5 Hz @ VSD

Volume flow rate	V	m³/h	2.683
Static pressure at $\rho= 1,2$ kg/m³	Δp_{sf}	Pa	3.150
Total pressure at $\rho= 1,2$ kg/m³	Δp_t	Pa	3.665
Static pressure at $\rho=$ kg/m³	Δp_{sf}	Pa	
Total pressure at $\rho=$ kg/m³	Δp_t	Pa	
Rated speed	n	1/min	2.786
Impeller power at $\rho= 1,2$ kg/m³	Pr	kW	3,37
Impeller power at $\rho=$ kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	613m
for installation type D (ISO) calculated acc. to VDI 3731			
Sound pressure at free inlet		dB(A)	783m
Fan weight (without motor) approx.		kg	92
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
 Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
 Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.

Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=80 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor
Type/Size	IE3W41R 112 MY2 / 112M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2930
Rated power P	kW (acc. eff.-cl.) 4 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 60
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	7,4 / 6,9times

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
 General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides-
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SG18,DIN24154,vz (z=0,55)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2y (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 180 RSt 372
- 1 x Supply air circular silencer Di/axL:180/380x700 mm

Type : **A-MRZ10E/200/530/1**

TECHNICAL DATA

48.2 Hz @ VSD

Volume flow rate	V	m³/h	3.381
Static pressure at ρ= 1,2 kg/m³	Δpsf	Pa	3.150
Total pressure at ρ= 1,2 kg/m³	Δpt	Pa	3.686
Static pressure at ρ= kg/m³	Δpsf	Pa	
Total pressure at ρ= kg/m³	Δpt	Pa	
Rated speed	n	1/min	2.825
Impeller power at ρ= 1,2 kg/m³	Pr	kW	4,06
Impeller power at ρ= kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	613m
for installation type D (ISO) calculated acc. to VDI			3731
Sound pressure at free inlet		dB(A)	793m
Fan weight (without motor) approx.		kg	111
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=80 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor
Type/Size	IE3W41R 132 S2 / 132S
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2930
Rated power P	kW (acc. eff.-cl.) 5,5 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 65
Classification	IEC 60034
Insulation class/utilised	F/B
Rated current I / Starting current I approx. A	10,5 / 7,7times

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides-
Casing	S235JR+N=RSt37-2
Base frame/support	S235JR+N=RSt37-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SG18,DIN24154,vz (z=0,55)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2y (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 200 RSt 372
- 1 x Supply air circular silencer Di/axL:200/400x700 mm

Type : **A- MRZ10E/224/600/1**

TECHNICAL DATA

42.5 Hz @ VSD

Volume flow rate	V	m³/h	4.293
Static pressure at ρ= 1,2 kg/m³	Δpsf	Pa	3.150
Total pressure at ρ= 1,2 kg/m³	Δpt	Pa	3.700
Static pressure at ρ= kg/m³	Δpsf	Pa	
Total pressure at ρ= kg/m³	Δpt	Pa	
Rated speed	n	1/min	2.489
Impeller power at ρ= 1,2 kg/m³	Pr	kW	5,14
Impeller power at ρ= kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	643m
for installation type D (ISO) calculated acc. to VDI		3731	
Sound pressure at free inlet		dB(A)	803m
Fan weight (without motor) approx.		kg	143
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor
Type/Size	IE3W41R 132 SX2 / 132SX
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 2925
Rated power P	kW (acc. eff.-cl.) 7,5 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 75
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I / Starting current I approx. A	14 / 8times

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides-
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SG18,DIN24154,vz (z=0,55)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2y (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 224 RSt 372
- 1 x Supply air circular silencer Di/axL:250/450x700 mm

Type : **A- MRZ10/250/800/1**

TECHNICAL DATA

56.5 Hz @ VSD

Volume flow rate	V	m³/h	3.366
Static pressure at ρ= 1,2 kg/m³	Δpsf	Pa	3.150
Total pressure at ρ= 1,2 kg/m³	Δpt	Pa	3.704
Static pressure at ρ= kg/m³	Δpsf	Pa	
Total pressure at ρ= kg/m³	Δpt	Pa	
Rated speed	n	1/min	1.666
Impeller power at ρ= 1,2 kg/m³	Pr	kW	6,61
Impeller power at ρ= kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	643m
for installation type D (ISO) calculated acc. to VDI			3731
Sound pressure at free inlet		dB(A)	793m
Fan weight (without motor) approx.		kg	217
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor
Type/Size	IE3W41R 132 M4 / 132M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 1475
Rated power P	kW (acc. eff.-cl.) 7,5 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 100
Classification	IEC 60034
Insulation class/utilised	F/B
Rated current I / Starting current I approx. A	14,5 / 8,6times

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides-
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SG18,DIN24154,vz (z=0,55)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 8 x Vibration attenuators ST.2y (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 250 RSt 372
- 1 x Supply air circular silencer Di/axL:280/480x700 mm

Type : **A- MRZ10A/280/850/1**

TECHNICAL DATA

56.5 Hz @ VSD

Volume flow rate	V	m³/h	6.761
Static pressure at ρ= 1,2 kg/m³	Δpsf	Pa	3.150
Total pressure at ρ= 1,2 kg/m³	Δpt	Pa	3.708
Static pressure at ρ= kg/m³	Δpsf	Pa	
Total pressure at ρ= kg/m³	Δpt	Pa	
Rated speed	n	1/min	1.553
Impeller power at ρ= 1,2 kg/m³	Pr	kW	8,25
Impeller power at ρ= kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	663m
for installation type D (ISO) calculated acc. to VDI		3731	
Sound pressure at free inlet		dB(A)	813m
Fan weight (without motor) approx.		kg	264
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor
Type/Size	IE3W41R 160 M4 / 160M
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 1475
Rated power P	kW (acc. eff.-cl.) 11 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 125
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I / Starting current I approx. A	21 / 7,5times

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides-
Casing	S235JR+N=RSt37-2
Base frame/support	S235JR+N=RSt37-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SGq12,DIN24154,vz (z=0,35)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 8 x Vibration attenuators ST.2y (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 280 RSt 372
- 1 x Supply air circular silencer Di/axL:315/515x700 mm

Type : **A- MRZ10C/315/950/1**

TECHNICAL DATA

51.4 Hz @ VSD

Volume flow rate	V	m³/h	8.586
Static pressure at ρ= 1,2 kg/m³	Δpsf	Pa	3.150
Total pressure at ρ= 1,2 kg/m³	Δpt	Pa	3.712
Static pressure at ρ= kg/m³	Δpsf	Pa	
Total pressure at ρ= kg/m³	Δpt	Pa	
Rated speed	n	1/min	1.533
Impeller power at ρ= 1,2 kg/m³	Pr	kW	10,4
Impeller power at ρ= kg/m³	Pr	kW	
Sound pressure, free field	Lp	dB(A)	673m
for installation type D (ISO) calculated acc. to VDI		3731	
Sound pressure at free inlet		dB(A)	823m
Fan weight (without motor) approx.		kg	312
Inlet temperature t		°C	20
maximum inlet temperature tmax		°C	40

ERP 2015: Acc. EU regulation No 327/2011 (centr./B/total)
 Target efficiency / max. total eff. fan (w/o VSD) in %

Flow medium Air Dust free **Combustion air**
 Ex-protection

for speed control: block resonance frequencies, max speed see above

Above techn. data are valid for fan w/o any accessories.
Sound pressure level @ silencer inlet opening area @ free field conditions, distance 1m/ 45°: LpA=85 dB(A)

INSTALLATION TYPE according to ISO 13349

- A -Free inlet, free outlet
- B -Free inlet, ducted outlet
- C -Ducted inlet, free outlet
- D -Ducted inlet and outlet

Exhaust position according to ISO 13349 **LG90**

MOTOR

Make	Standard IEC Motor
Type/Size	IE3W41R 160 L4 / 160L
Rated voltage U/Frequency f	V/Hz 3x400 / 50
Rated speed n approx.	1/min 1490
Rated power P	kW (acc. eff.-cl.) 15 (IE3)
Design/protection class	B3 / IP55
Motor weight approx.	kg 175
Classification	IEC 60034
Insulation class/utilised	F/
Rated current I/ Starting current I approx. A	28 / 10,5times

- Ex-protection
- Multi speed
- Direct-Connection with fan
- Thermistor protection 3-times Bearing with external lubrication
- Space heater
- terminal box on Top /loc. Mid,A o.B side
- without separate rating plate
- Standard paint system

OTHER REQUIREMENTS

Duct transition pieces and support structure for silencer installation/ assembly provided by the customer !

Contract basis: Without obligation. Tolerances acc. to ISO 13348, AN3
 General Conditions for the Supply of Products and Services of the [German] Electrical and Electronics Industry. Payment terms only after positive credit rating by Atradius Kreditversicherung. German law applies.

CENTRIFUGAL FAN

- Single inlet
- Direct drive, impeller mounted on motor shaft
- Belt drive
- Drive through elastic coupling
- Enclosed bearing lubr. for life
- Outdoor installation
- Shaft seal
- Split casing
- 1 x Shaft lining with felt seal disc

MAIN MATERIALS

Impeller, main mat.	S235JR+N
	Welded both sides-
Casing	S235JR+N=RS137-2
Base frame/support	S235JR+N=RS137-2

SURFACE TREATMENT

Impeller	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing outside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Casing inside	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -
Base frame/support	A3-Grd.+ 2-K PA-Coat. approx.160µm
color/corr.-cl.	RAL 7000 / -

- Motor
- Inlet spigot
- Cooling disc
- 1 x Drain plug 1/2"
- 1 x Protection grill inlet SG18,DIN24154,vz (z=0,55)
- Protection grill outlet
- Anti-spark lining (brass)
- 1 x Inspection opening ST

SEPARATE PARTS

- Documentation as attached
- 6 x Vibration attenuators ST.2g (rubber)
- Counter flange inlet
- Counter flange outlet
- Flex.connect. inlet
- Guide duct inlet
- 1 x Flex.connect. outlet LT200 U w.2cl.fl.vz
- 1 x Guide duct outlet size 315 RSt 372
- 1 x Supply air circular silencer Di/axL:355/555x800 mm