

MINISTRY OF TRANSPORT OF THE RUSSIAN FEDERATION FEDERAL AIR TRANSPORT AGENCY

Type Certificate Data Sheet

№ FATA-AS355

Models: AS355E AS355F _

AS355F1

AS355F2 AS355N

AS355NP

Issue 02 30 of March 2018

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Content

1.	Helicopter model AS 355E	3
2.	Helicopter model AS 355F	6
3.	Helicopter model AS 355F1	9
4.	Helicopter model AS 355F2	1 <u>2</u>
5.	Helicopter model AS 355N	15
6.	Helicopter model AS 355NP	

Title	Issue	Date
TCDS № FATA-AS355	02	30.03.2018

This Data Sheet which is the integral part of Type Certificate № 112-3505. It prescribes the conditions and limitations under which the product for which the type certificate was issued meets the requirements of Certification Basis.

1. Helicopter model AS 355E		
Type Certificate Holder	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Manufacturer	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Aircraft description	Single-rotor helicopter with tail rotor, equipped with two gas-turbine engines and skid landing gear	
Category	Normal	
Applicability	AS 355E helicopter model is approved for VFR and IFR day and night operation, above land and water surface, for passenger transportation, for cargo transportation inside cabin as well as on external sling	
Type Certification Data	Type Certificate № 112-355 Issued by IAC AR on 06 December 1996	
Type Design	Defined in the following documents: Flight Manual – AS355E, AS355F, AS355F1, AS355F2, AS355N; Service Manual – AS355; Overhaul Manual – 355; Repair Manual – AS355; AS355 Service Bulletins approved by EASA. The helicopter must be equipped with the following equipment (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list): Pressure altimeter (in meters); Vertical speed indicator (in m/s); Attitude Indicator (horizon) with glide indication; Aircraft clock; Automatic Direction Finder (ADF). The helicopter should be equipped with emergency VHF radio P855A1 Markings for emergency equipment must be in Russian language.	

Title		Issue	Date
Data Sheet № FATA-AS355		02	30.03.2018
Certification Basis	CE355.27 Certification Basis includes Airworthiness AP-27, requi AP-36	requirement rements to E	s to nvironment
Engine	Two gas-turbine engines Allison 250-C20F manufactured by Allison Er Engine Type Certificate №83-Д/01 dated on 11 Nor AR	ngine Compa vember 1997	ny, Inc. Issued by IAC
Fuel	PT, TC-1 in accordance wi (foreign fuels types are listor Anti-ice additives: fluid "Λ" 10-1458), volume concentr	th GOST 102 ed in RFM) (GOST 8313 ation 0.10-0.3	27-86), "И-М" (TU 6- 30.
Approved oil types for engine and transmission gearbox	see in RFM		

Allison 250-C20F Engine operational limits

Modes/	Takeoff mode	Maximum cont	inuous power
Characteristic		AEO	OEI
Torque, N×m (%)	406 (78)	380 (73)	521 (100)
Turbine outlet temperature (°C)	810	738	810
Gas generator speed (%)	105	105	105

Information on limitations on the transitional modes is contained in the approved RFM. Other limitations on the engine are given in the Type Certificate Data Sheet №83-Д/01 dated on 11 November 1997 issued by IAC AR on engines Allison 250-C20F Allison Engine Company, Inc.

Rotor Limitations

Power on:	
- AEO	390 (+4/-5) rpm
- OEI	375 - 394 rpm
Power off:	
- maximum	425 rpm

- minimum 330 rpm (aural warning at 330 rpm)

Title		Issue	Date
Data Sheet № FATA-AS355		02	30.03.2018
Speed limitations	Power on: Vne is limited by indicated 150 kt (287 km/h) from 0 m With altitude increasing, if per each 1000 m (2,5 kt per When OAT is lower than decreased by 19 km/h (10 Power off: Vne is limited by indicated 120 kt (222 km/h) from 0 m	air speed: altitude. t is decrease r 1000 ft). - 35°C Vne knots). air speed: altitude.	ed by 15 km/h is additionally
	When OAT is lower than decreased by 37 km/h (20 lower than 120 km/h (65 kr	r 1000 ft). - 25°C Vne knots) excentots).	is additionally ot when Vne is
C.G. Reference	Longitudinal: - 3.4 m centerline Lateral: Aircraft symmetry p	forward o	of the MRH
Minimum crew	1 pilot in R.H. seat		
Maximum take-off weight	2100 kg		
Fuel capacity	736,7 liters		
Number of seats	5		
	6 - if the aircraft is fitt passenger seat, approve document №355A04.3122	ed with the ed layout is	forward dual contained in
Maximum baggage weight	In RH. side hold 100 kg In LH. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg		
Maximum operational altitude	4875 m (16 000 feet)		
OAT temperature range	-40°CMCA+35°C (Max	+50°C).	

Additional operational conditions limitations and information of AS355 E helicopter model for operators in Russian Federation:

- 1. Flights in icing conditions are prohibited.
- 2. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
- 3. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
- 4. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

2. Helicopter model AS 355F

Type Certificate Holder	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Manufacturer	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France
Aircraft description	Single-rotor helicopter with tail rotor, equipped with two gas-turbine engine and skid landing gear
Category	Normal
Applicability	AS 355F helicopter model is approved for VFR and IFR day and night operation, above land and water surface, for passenger transportation, for cargo transportation inside cabin as well as on external sling
Type Certification Data	Type Certificate № 112-355 Issued by IAC AR on 06 December 1996
Type Design	Defined in the following documents: Flight Manual – AS355E, AS355F, AS355F1, AS355F2, AS355N; Service Manual – AS355; Overhaul Manual – 355; Repair Manual – AS355; AS355 Service Bulletins approved by EASA.
- - - - -	The helicopter must be equipped with the following equipment (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list): Pressure altimeter (in meters); Vertical speed indicator (in m/s); Attitude Indicator (horizon) with glide indication; Aircraft clock; Automatic Direction Finder (ADF).
	The helicopter should be equipped with emergency VHF radio P855A1
	Markings for emergency equipment must be in Russian language.
Certification Basis	CE355.27 Certification Basis includes requirements to Airworthiness AP-27, requirements to Environment AP-36

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Engine	Two gas-turbine engines Allison 250-C20F manufactured by Allison Engine Company, Inc. Engine Type Certificate №83-Д/01 dated on 11 November 1997 Issued by IAC AR
Fuel	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid "И" (GOST 8313), "И-М" (TU 6- 10-1458), volume concentration 0.10-0.30%.
Approved oil types for engine and transmission gearbox	see in RFM

Allison 250-C20F Engine operational limits

Modes/	Takeoff mode	Maximum cont	inuous power
Characteristic		AEO	OEI
Torque, N×m (%)	406 (78)	380 (73)	521 (100)
Turbine outlet temperature (°C)	810	738	810
Gas generator speed (%)	105	105	105

Information on limitations on the transitional modes is contained in the approved RFM. Other limitations on the engine are given in the Type Certificate Data Sheet №83-Д/01 dated on 11 November 1997 issued by IAC AR on engines Allison 250-C20F Allison Engine Company, Inc.

Rotor Limitations

Power on:

- AEO	390 (+4/-5) rpm
- OEI	375 - 394 rpm
Power off:	
- maximum	425 rpm
- minimum	330 rpm (aural warning at 330 rpm)
Speed limitations	Power on:
•	Vne is limited by indicated air speed:
	150 kt (287 km/h) from 0 m altitude.
	With altitude increasing, it is decreased by 15 km/h
	per each 1000 m (2,5 kt per 1000 ft).
	When OAT is lower than - 35°C Vne is additionally
	decreased by 19 km/h (10 knots).
	Power off:
	Vne is limited by indicated air speed:
	120 kt (222 km/h) from 0 m altitude.
	With altitude increasing, it is decreased by 15 km/h
	per each 1000 m (2,5 kt per 1000 ft).
	When OAT is lower than - 25°C Vne is additionally
	decreased by 37 km/h (20 knots) except when Vne is lower than 120 km/h (65 knots).

Title		Issue	Date
Data Sheet № FATA-AS355		02	30.03.2018
C.G. Reference	Longitudinal: - 3.4 m centerline	forward o	of the MRH
	Lateral: Aircraft symmetry p	blane	
Minimum crew	1 pilot in R.H. seat		
Maximum take-off weight	2300 kg		
Fuel capacity	736,7 liters		
Number of seats	5		
	6 - if the aircraft is fitt passenger seat, approve document №355A04.3122	ed with the d layout is	forward dual contained in
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg		
Maximum operational altitude	4875 m (16 000 feet)		
OAT temperature range	-40°CMCA+35°C (Max	+50°C)	

Additional operational conditions limitations and information of AS355 F helicopter model for operators in Russian Federation:

- 1. Flights in icing conditions are prohibited.
- 2. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
- 3. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
- 4. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.

Title	Issue	Date
TCDS № FATA-AS355	02	30.03.2018

3. Helicopter model AS 355F1

Type Certificate Holder:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Manufacturer:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Aircraft description	Single-rotor helicopter with tail rotor, equipped with two gas-turbine engines and skid landing gear	
Category	Normal	
Applicability	AS 355F1 helicopter model is approved for VFR and IFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling	
Type Certification Data	Type Certificate № 112-355 Issued by IAC AR on 06 December 1996	
Type Design	Defined in the following documents: Flight Manual – AS355E, AS355F, AS355F1, AS355F2, AS355N; Service Manual – AS355; Overhaul Manual – 355; Repair Manual – AS355; AS355 Service Bulletins approved by EASA.	
- - - - -	The helicopter must be equipped with the following equipment (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list): Pressure altimeter (in meters); Vertical speed indicator (in m/s); Attitude Indicator (horizon) with glide indication; Aircraft clock; Automatic Direction Finder (ADF). The helicopter should be equipped with emergency VHF radio P855A1	
	Markings for emergency equipment must be in Russian language.	
Certification basis	CE355.27 Certification Basis includes requirements to Airworthiness AP-27, requirements to Environment AP-36	

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Engine	Two gas-turbine engines Allison 250-C20F manufactured by Allison Engine Company, Inc. Engine Type Certificate №83-Д/01 dated on 11 November 1997 Issued by IAC AR	
Fuel	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid "I/" (GOST 8313), "I/-M" (TU 6- 10-1458), volume concentration 0.10-0.30%.	
Approved oil types for engine and transmission gearbox	see in RFM	

Allison 250-C20F Engine operational limits

Modes/	Takeoff mode	Maximum cont	inuous power
Characteristic		AEO	OEI
Torque, N×m (%)	406 (78)	380 (73)	521 (100)
Turbine outlet temperature (°C)	810	738	810
Gas generator speed (%)	105	105	105

Information on limitations on the transitional modes is contained in the approved RFM. Other limitations on the engine are given in the Type Certificate Data Sheet №83-Д/01 dated on 11 November 1997 issued by IAC AR on engines Allison 250-C20F Allison Engine Company, Inc.

Rotor Limitations

Speed limitations	Power on:
- minimum	330 rpm (aural warning at
- maximum	425 rpm (aural warning at
Power off:	
- OEI	375 - 394 rpm
	0.75 0.04 mm
- AEO	390 (+4/-5) rpm

Vne is limited by indicated air speed:
150 kt (287 km/h) from 0 m altitude.
With altitude increasing, it is decreased by 15 km/h
per each 1000 m (2,5 kt per 1000 ft).
When OAT is lower than - 35°C Vne is additionally
decreased by 19 km/h (10 knots).
Power off:
Vne is limited by indicated air speed:
Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude.
Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h
Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h per each 1000 m (2,5 kt per 1000 ft).
Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h per each 1000 m (2,5 kt per 1000 ft). When OAT is lower than - 25°C Vne is additionally
Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h per each 1000 m (2,5 kt per 1000 ft). When OAT is lower than - 25°C Vne is additionally decreased by 37 km/h (20 knots) except when Vne is
Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h per each 1000 m (2,5 kt per 1000 ft). When OAT is lower than - 25°C Vne is additionally decreased by 37 km/h (20 knots) except when Vne is lower than 120 km/h (65 knots).

410 rpm) 360 rpm)

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

C.G. Reference	Longitudinal: - 3.4 m forward of the MRH centerline		
	Lateral: Aircraft symmetry plane		
Minimum crew	1 pilot in R.H. seat		
Maximum take-off weight	2400 kg		
Fuel capacity	736,7 liters		
Number of seats	5		
	6 - if the aircraft is fitted with the forward dual passenger seat, approved layout is contained in document №355A04.3122		
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg		
Maximum operational altitude	4875 m (16 000 feet)		
OAT temperature range	-40 °CMCA +35 °C (Max +50 °C)		

Additional operational conditions limitations and information of AS355 F helicopter model for operators in Russian Federation:

- 1. Flights in icing conditions are prohibited.
- Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
- 3. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
- 4. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

4. Helicopter model AS 355F2

Type Certificate Holder:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Manufacturer:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Aircraft description	Single-rotor helicopter with tail rotor, equipped with two gas-turbine engines and skid landing gear	
Category	Normal	
Applicability	AS 355F2 helicopter model is approved for VFR and IFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling	
Type Certificate Data	Type Certificate № 112-355 Issued by IAC AR on 06 December 1996	
Type design	Defined in the following documents: Flight Manual – AS355E, AS355F, AS355F1, AS355F2, AS355N; Service Manual – AS355; Overhaul Manual – 355; Repair Manual – AS355; AS355 Service Bulletins approved by EASA. The helicopter must be equipped with the following equipment (approved list of mandatory	
- - - -	equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list): Pressure altimeter (in meters); Vertical speed indicator (in m/s); Attitude Indicator (horizon) with glide indication; Aircraft clock; Automatic Direction Finder (ADF).	
	The helicopter should be equipped with emergency VHF radio P855A1	
	Markings for emergency equipment must be in Russian language.	
Certification Basis	CE355.27 Certification Basis includes requirements to Airworthiness AP-27, requirements to Environment AP-36	

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Engine	Two gas-turbine engines Allison 250-C20F manufactured by Allison Engine Company, Inc. Engine Type Certifica №83-Д/01 dated on 11 November 1997 Issued b IAC AR	
Fuel	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid "И" (GOST 8313), "И-М" (TU 6-10-1458), volume concentration 0.10-0.30%.	
Approved oil types for engine and transmission gearbox	See in RFM	

Allison 250-C20F Engine operational limits

Modes/	Takeoff mode	Maximum cont	inuous power
Characteristic		AEO	OEI
Torque, N×m (%)	406 (78)	380 (73)	521 (100)
Turbine outlet temperature (°C)	810	738	810
Gas generator speed (%)	105	105	105

Information on limitations on the transitional modes is contained in the approved RFM. Other limitations on the engine are given in the Type Certificate Data Sheet №83-Д/01 dated on 11 November 1997 issued by IAC AR on engines Allison 250-C20F Allison Engine Company, Inc.

Rotor Limitations

Power on:

Power off: - maximum

- minimum

Speed limitations

- AEO	390 (+4/-5) rpm
- OEI	375 - 394 rpm

425 rpm (aural warning at 410 rpm)

330 rpm (aural warning at 360 rpm)

Power on:

Vne is limited by indicated air speed: 150 kt (287 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h per each 1000 m (2,5 kt per 1000 ft). When OAT is lower than - 35°C Vne is additionally decreased by 19 km/h (10 knots). **Power off:** Vne is limited by indicated air speed: 120 kt (222 km/h) from 0 m altitude. With altitude increasing, it is decreased by 15 km/h per each 1000 m (2,5 kt per 1000 ft). When OAT is lower than - 25°C Vne is additionally decreased by 37 km/h (20 knots) except when Vne is lower than 120 km/h (65 knots).

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

C.G. Reference	Longitudinal: - 3.4 m forward of the MRH centerline			
	Lateral: Aircraft symmetry plane			
Minimum crew	1 pilot in R.H. seat			
Maximum take-off weight	2540 kg			
Fuel capacity	736,7 liters			
Number of seats	5			
	6 - if the aircraft is fitted with the forward dual passenger seat, approved layout is contained in document №355A04.3122			
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg			
Maximum operational altitude	4875 m (16 000 feet)			
OAT temperature range	-40 °C…MCA +35 °C (Max +50 °C)			

Additional operational conditions limitations and information of AS355 F helicopter model for operators in Russian Federation:

- 1. Flights in icing conditions are prohibited.
- 2. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
- 3. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
- 4. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

5. Helicopter model AS 355N

Type Certificate Holder:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France		
Manufacturer:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France		
Aircraft description	Single-rotor helicopter with tail rotor, equipped with two gas-turbine engines and skid landing gear		
Category	Normal		
Applicability	AS 355N helicopter model is approved for VFR and IFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling		
Type Certificate Data	Type Certificate № 112-355 Issued by IAC AR on 06 December 1996		
Type design 	Defined in the following documents: Flight Manual – AS355E, AS355F, AS355F1, AS355F2, AS355N; Service Manual – AS355; Overhaul Manual – 355; Repair Manual – AS355; AS355 Service Bulletins approved by EASA. The helicopter must be equipped with the		
	following equipment (approved list of mandatory equipment is included in EUROCOPTER FRANCE document №350A04.4320 based on the following list): Pressure altimeter (in meters); Vertical speed indicator (in m/s); Attitude Indicator (horizon) with glide indication; Aircraft clock; Automatic Direction Finder (ADF).		
	The helicopter should be equipped with emergency VHF radio P855A1 Markings for emergency equipment must be in		
	Russian language.		
Certification basis	Cb355.27 Certification Basis includes requirements to Airworthiness AP-27, requirements to Environment AP-36		

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Engine	Two gas-turbine engines Arrius 1A manufactured by Turbomeca Engine Type Certificate № 111-Д/01 dated on 28 October 1996 Issued by IAC AR
Fuel Approved oil types for engine and transmission gearbox	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid "И" (GOST 8313), "И-М" (TU 6-10-1458), volume concentration 0.10-0.30% %. Anti-static Sigbol is approved for use in amounts up to 0.0005% by weight. see in RFM

Arrius 1A engine operational limits:

Power mode	Shaft torque limit, N×m (%)	Maximum turbine outlet temperature °C	Maximum gas generator speed rpm
Takeoff power	406 (78)	800	54685
Middle emergency power (30 min)	559 (115)	800	55300
Maximum emergency power (2 min 30 sec)	689 (131)	870	56140
Maximum continuous power (AOE)	380 (73)	765	53285
Maximum continuous power (OEI)	521 (100)	765	53285

Information on limitations on the transitional modes is contained in the approved RFM. Other limitations on the engine are given in the Type Certificate Data Sheet №111-Д/01 dated on 28 October 1996 issued by IAC AR on engines TURBOMECA Arrius 1A.

Rotor Limitations

Power on:	
- AOE	390 (+4/-5) rpm
 At speed less than 55 knots OEI 	390 (+10/-5) rpm 375 - 394 rpm
Power off:	

- maximum	425 rpm (aural warning at 410 rpm)
- minimum	330 rpm (aural warning at 360 rpm)

Title		Issue	Date
Data Sheet № FATA-AS355		02	30.03.2018
Speed limitations	Power on: Vne is limited by indicated 150 kt (287 km/h) from 0 m With altitude increasing, in per each 1000 m (2,5 kt per When OAT is lower than decreased by 19 km/h (10 Power off: Vne is limited by indicated 120 kt (222 km/h) from 0 m With altitude increasing, in per each 1000 m (2,5 kt per When OAT is lower than decreased by 37 km/h (20 lower than 120 km/h (65 km)	air speed: a altitude. t is decrease r 1000 ft). - 35°C Vne knots). air speed: a altitude. t is decrease r 1000 ft). - 25°C Vne knots) excep nots).	ed by 15 km/h is additionally ed by 15 km/h is additionally pt when Vne is
C.G. Reference	Longitudinal: - 3.4 m centerline	forward o	of the MRH
	Lateral: Aircraft symmetry	olane	
Minimum crew	1 pilot in R.H. seat		
Maximum take-off weight	2540 kg		
Fuel capacity	736,7 liters		
Number of seats	5		
	6 - if the aircraft is fitt passenger seat, approve document №355A04.3122	ed with the ed layout is	forward dual contained in
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg		
Maximum operational altitude	4875 m (16 000 feet)		
OAT temperature range	-40 °CMCA +35 °C (Max	< +50 °C)	

Additional operational conditions limitations and information of AS355 N helicopter model for operators in Russian Federation:

- 1. Flights in icing conditions are prohibited.
- 2. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
- 3. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
- 4. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

6. Helicopter model AS 355NP

Type Certificate Holder:	Airbus Helicopters Aeroport International Marseille Provence 13725 Marignane, Cedex, France	
Manufacturer:	Airbus Helicopters Aeroport Intrernational Marseille-Provence 13725 Marignane, Cedex, France	
Aircraft description	Single-rotor helicopter with tail rotor, equipped with two gas-turbine engines and skid landing gear	
Category	Normal	
Applicability	AS 355NP helicopter model is approved for VFR and IFR day and night operation, for passenger transportation, for cargo transportation inside cabin as well as on external sling	
Type Certificate Data	Type Certificate № 112-355 Issued by IAC AR on 06 December 1996	
Type design	Defined in the document «355ABN0048 - AS355 FATA Type Design Definition", issue L	
Certification basis	CE355.27 Certification Basis includes requirements to Airworthiness AP-27, requirements to Environment AP-36	
Engine	Two gas-turbine engines Arrius 1A manufactured by Turbomeca Engine Type Certificate № 111-Д/01 dated on 28 October 1996 Issued by IAC AR	
Noise requirements	Noise Supplement Type Certificate № СШ-102- AS355/Д01 dated 28 February 2008	
Fuel	PT, TC-1 in accordance with GOST 10227-86 (foreign fuels types are listed in RFM) Anti-ice additives: fluid "//" (GOST 8313), "/I-M" (TU 6-10-1458), volume concentration 0.10-0.30% %. Anti-static Sigbol is approved for use in amounts up to 0.0005% by weight.	
Approved oil types for engine and transmission gearbox	See RFM	

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Arrius 1A engine operational

limits:

AOE:

-	
Take-off (5 min)	
Power	934 h.p.(686 kW)
Generator speed	54375 rpm (100.5%)
Gas temperature before turbine	773 °C

Maximum continuous mode	
Power	830 h.p. (610 kW)
Generator speed	53397 rpm (98,7%)
Gas temperature before turbine	749 °C

100%=54177 rpm

OEI:	
Maximum mode (2,5 minutes power)	
Power	564 h.p.(415 kW)
Generator speed	56347 rpm (104,1%)
Gas temperature before turbine	885 °C

Maximum continuous mode		
Power	525 h.p.(386 kW)	
Generator speed	55452 rpm (102,5%)	
Gas temperature before turbine	812 °C	

Information on limitations on the transitional modes is contained in the approved RFM. Other limitations on the engine are given in the Type Certificate Data Sheet №111-Д/01 dated on 28 October 1996 issued by IAC AR on engines TURBOMECA Arrius 1A.

Rotor Limitations

Power on flight	375 - 394 rpm
Maximum in autorotation	425 rpm
Minimum in autorotation	330 rpm
Speed limitations	Vne is limited by indicated air speed: 150 kt (287 km/h). Vne at autorotation speed: 120 kt (222 km/h)
C.G. Reference	Longitudinal: - 3.4 m forward of the MRH centerline
	Lateral: Aircraft symmetry plane
Minimum crew	1 pilot in R.H. seat

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Maximum take-off weight	2600 kg
Fuel capacity	736,7 liters
Number of seats	6 (including pilot seat)
Maximum baggage weight	In R.H. side hold 100 kg In L.H. side hold 120 kg In rear hold 80 kg On cabin floor: Forward section 150 kg Rear section 310 kg
Maximum operational altitude	6096 m
OAT temperature range	-40 °C…MCA +35 °C (Max +50 °C)

Additional operational conditions limitations and information of AS355 NP helicopter model for operators in Russian Federation:

- 1. Flights in icing conditions are prohibited.
- 2. Regular commercial transportation on helicopters, not equipped with a flight data recorder, is prohibited.
- 3. Flights in thunderstorm activity when weather radar is not installed or inoperative are prohibited.
- 4. Non-hangar storage helicopter operation is allowed only with use of protective covers and gags.

Other limitations are contained in helicopter operational documentations

Nº	STC Name	STC Holder	Type Design description documents	Aviation authorities issued STC	Applicability
1	STC SH 93-4 «Bearpaw Installation»	Dart Aerospace Ltd.	- MDL-D350-578, Rev.A; - Maintenance ICA-D350- 578, Rev.1; - Installation Drawing D350-578, Rev. F	TCCA	AS355E AS355F AS355F1 AS355F2 AS355N AS355NP
2	STC SH 94-14 «Heli-utility Basket Installation»	Dart Aerospace Ltd.	- MDL-D350-607, Rev.A; - Maintenance ICA-D350- 607, Rev.H; - Installation D350-578 Rev.H; - FMS-D355-607, Rev.D	TCCA	AS355E AS355F AS355F1 AS355F2 AS355N AS355NP

Supplemental Type Certificates (STC)

Title	Issue	Date
Data Sheet № FATA-AS355	02	30.03.2018

Supplements to Type Certificate and Major change approvals

Major change approvals Type design change description		Applicability	
№112-355/1	Introduction of the AS355E, F, F1, F2 models	AS355E AS355F AS355F1 AS355F2	
№112-355/Д02	Installation of Turbomeca Arrius 1A1 engine	AS355NP	
№112-355/Д03	Helicopter equipment Installation which provides IFR operation	AS355NP	
№112-355/ОГЛ-04	New main gear box fixed ring Installation of new flight servo control NOVINTEC Wire protection of strobe light	AS355NP	
	Double locking wire for yaw control		
№112-355/ОГИ-05	Long tube of tail drive line by air furnace	AS355NP	
№112-355/ОГИ-06	Upper scissor branch by air furnace	AS355NP	
№112-355/ОГИ-07	Engine fire extinction circuit inversion	AS355NP	
№112-355/ОГИ-08	Free wheel pinion with full radius teeth	AS355NP	
№FATA-02053R-MC-09	VEMD NG - Twin engines	AS355NP	
№FATA-02053R-MC-10	Modification of the types of Chin weights of tail rotors	AS355N AS355NP	
№FATA-02053R-MC-11	Half laminated bearings classification modification	AS355E AS355F AS355F1 AS355F2 AS355N AS355NP	
№FATA-02053R-MC-12	Cargo compartment / Tail-boom junction frame	AS355E AS355F AS355F1 AS355F2 AS355N	
NºFATA-020165R-MC-13	Standardization of MGB main housing blanks	AS355E AS355F AS355F1 AS355F2 AS355N AS355NP	

* * *

Original TCDS is signed by Deputy Director General

Mr. O. Storchevoy